Supplementary Material

1. Table S1. Proteins identified in the matrix of *C. acnes* RT5 biofilms. The proteins isolated only in the lower phase of the matrix are labeled red, and the proteins in the upper are in blue.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Accession** | **Description** | **MW [kDa]** | **Coverage** | **# AAs** |
| 1. 327443705
 | 1. bacterial NAD-glutamate dehydrogenase [*Cutibacterium acnes* HL043PA2]
 | 1. 172,238
 | 1. 3,82
 | 1. 1569
 |
| 1. 327446964
 | 1. DNA-directed RNA polymerase, beta' subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 143,329
 | 1. 10,67
 | 1. 1293
 |
| 1. 327445677
 | 1. oxoglutarate dehydrogenase (succinyl-transferring), E1 component [*Cutibacterium acnes* HL043PA2]
 | 1. 136,695
 | 1. 3,24
 | 1. 1236
 |
| 1. 327450411
 | 1. pyruvate synthase [*Cutibacterium acnes* HL043PA2]
 | 1. 131,812
 | 1. 12,13
 | 1. 1204
 |
| 1. 327446963
 | 1. DNA-directed RNA polymerase, beta subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 131,21
 | 1. 7,17
 | 1. 1185
 |
| 1. 327445932
 | 1. ribonucleoside-diphosphate reductase, adenosylcobalamin-dependent [*Cutibacterium acnes* HL043PA2]
 | 1. 103,873
 | 1. 8,84
 | 1. 950
 |
| 1. 327443701
 | 1. preprotein translocase, SecA subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 101,327
 | 1. 2,9
 | 1. 898
 |
| 1. 327445767
 | 1. alanine--tRNA ligase [*Cutibacterium acnes* HL043PA2]
 | 1. 95,7476
 | 1. 5,49
 | 1. 892
 |
| 1. 327445892
 | 1. aconitate hydratase 1 [*Cutibacterium acnes* HL043PA2]
 | 1. 96,3455
 | 1. 3,49
 | 1. 888
 |
| 1. 327447637
 | 1. pyruvate, phosphate dikinase [*Cutibacterium acnes* HL043PA2]
 | 1. 96,4148
 | 1. 25,93
 | 1. 883
 |
| 1. 327444294
 | 1. membrane alanyl aminopeptidase [*Cutibacterium acnes* HL043PA2]
 | 1. 96,6945
 | 1. 4,25
 | 1. 870
 |
| 1. 327444263
 | 1. Anticodon-binding domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 97,2608
 | 1. 1,84
 | 1. 870
 |
| 1. 327449698
 | 1. ATPase family associated with various cellular activities (AAA) [*Cutibacterium acnes* HL043PA2]
 | 1. 93,2526
 | 1. 2,73
 | 1. 844
 |
| 1. 327444364
 | 1. phenylalanine--tRNA ligase, beta subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 89,1879
 | 1. 2,98
 | 1. 839
 |
| 1. 327446071
 | 1. leucine--tRNA ligase [*Cutibacterium acnes* HL043PA2]
 | 1. 92,3907
 | 1. 5,45
 | 1. 826
 |
| 1. 327442870
 | 1. NADH dehydrogenase (quinone), G subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 86,5539
 | 1. 3,33
 | 1. 812
 |
| 1. 327446134
 | 1. S1 RNA binding domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 88,6422
 | 1. 3,11
 | 1. 803
 |
| 1. 327444160
 | 1. guanosine pentaphosphate synthetase I/polyribonucleotide nucleotidyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 78,8514
 | 1. 13,64
 | 1. 733
 |
| 1. 327445140
 | 1. methylmalonyl-CoA mutase large subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 80,1163
 | 1. 22,22
 | 1. 729
 |
| 1. 327446014
 | 1. succinate dehydrogenase or fumarate reductase, flavoprotein subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 78,0746
 | 1. 5,35
 | 1. 710
 |
| 1. 327444579
 | 1. translation elongation factor G [*Cutibacterium acnes* HL043PA2]
 | 1. 76,5564
 | 1. 9,47
 | 1. 697
 |
| 1. 327445877
 | 1. threonine--tRNA ligase [*Cutibacterium acnes* HL043PA2]
 | 1. 77,2639
 | 1. 6,82
 | 1. 689
 |
| 1. 327444113
 | 1. succinate dehydrogenase or fumarate reductase, flavoprotein subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 75,7144
 | 1. 12,59
 | 1. 675
 |
| 1. 327446943
 | 1. 2-oxoacid:acceptor oxidoreductase, alpha subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 70,328
 | 1. 7,18
 | 1. 655
 |
| 1. 327449725
 | 1. ferrochelatase [*Cutibacterium acnes* HL043PA2]
 | 1. 70,614
 | 1. 11,54
 | 1. 650
 |
| 1. 327445141
 | 1. methylmalonyl-CoA mutase, small subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 69,0733
 | 1. 32,7
 | 1. 636
 |
| 1. 327444300
 | 1. AMP-binding enzyme [*Cutibacterium acnes* HL043PA2]
 | 1. 69,5205
 | 1. 5,83
 | 1. 635
 |
| 1. 327448387
 | 1. GTP-binding protein TypA [*Cutibacterium acnes* HL043PA2]
 | 1. 68,4269
 | 1. 5,48
 | 1. 620
 |
| 1. 327447627
 | 1. chaperone protein DnaK [*Cutibacterium acnes* HL043PA2]
 | 1. 66,3225
 | 1. 41,49
 | 1. 617
 |
| 1. 327449464
 | 1. glutamine-fructose-6-phosphate transaminase (isomerizing) [*Cutibacterium acnes* HL043PA2]
 | 1. 66,994
 | 1. 8,13
 | 1. 615
 |
| 1. 327449171
 | 1. AMP-binding enzyme [*Cutibacterium acnes* HL043PA2]
 | 1. 66,2291
 | 1. 11,53
 | 1. 607
 |
| 1. 327445770
 | 1. aspartate--tRNA ligase [*Cutibacterium acnes* HL043PA2]
 | 1. 66,4973
 | 1. 18,98
 | 1. 606
 |
| 1. 327450412
 | 1. pyridine nucleotide-disulfide oxidoreductase [*Cutibacterium acnes* HL043PA2]
 | 1. 66,4245
 | 1. 12,23
 | 1. 605
 |
| 1. 327444157
 | 1. thiamine pyrophosphate enzyme, N-terminal TPP binding domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 64,089
 | 1. 13,9
 | 1. 597
 |
| 1. 327444184
 | 1. translation initiation factor IF-2 [*Cutibacterium acnes* HL043PA2]
 | 1. 62,9378
 | 1. 6
 | 1. 583
 |
| 1. 327447714
 | 1. arginine--tRNA ligase [*Cutibacterium acnes* HL043PA2]
 | 1. 63,9594
 | 1. 31,1
 | 1. 582
 |
| 1. 327444193
 | 1. proline--tRNA ligase [*Cutibacterium acnes* HL043PA2]
 | 1. 63,6595
 | 1. 32,36
 | 1. 581
 |
| 1. 327446077
 | 1. malic enzyme, NAD binding domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 61,7616
 | 1. 26,23
 | 1. 568
 |
| 1. 327446586
 | 1. ABC transporter, ATP-binding protein [*Cutibacterium acnes* HL043PA2]
 | 1. 61,9042
 | 1. 5,49
 | 1. 565
 |
| 1. 327443867
 | 1. CTP synthase [*Cutibacterium acnes* HL043PA2]
 | 1. 60,6502
 | 1. 8,01
 | 1. 562
 |
| 1. 327444155
 | 1. hypothetical protein HMPREF9571\_02286 [*Cutibacterium acnes* HL043PA2]
 | 1. 60,8078
 | 1. 3,95
 | 1. 557
 |
| 1. 327449770
 | 1. phosphoenolpyruvate-protein phosphotransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 57,6929
 | 1. 6,46
 | 1. 557
 |
| 1. 327449865
 | 1. nicotinate-nucleotide--dimethylbenzimidazole phosphoribosyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 58,6391
 | 1. 5,58
 | 1. 556
 |
| 1. 327445697
 | 1. ATP synthase F1, alpha subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 58,872
 | 1. 24,22
 | 1. 545
 |
| 1. 327449885
 | 1. chaperonin GroL [*Cutibacterium acnes* HL043PA2]
 | 1. 56,8047
 | 1. 44,3
 | 1. 544
 |
| 1. 327445845
 | 1. phosphoglucomutase, alpha-D-glucose phosphate-specific [*Cutibacterium acnes* HL043PA2]
 | 1. 58,451
 | 1. 7,55
 | 1. 543
 |
| 1. 327449490
 | 1. chaperonin GroL [*Cutibacterium acnes* HL043PA2]
 | 1. 56,3943
 | 1. 62,52
 | 1. 531
 |
| 1. 327444272
 | 1. trigger factor [*Cutibacterium acnes* HL043PA2]
 | 1. 57,6801
 | 1. 16,42
 | 1. 530
 |
| 1. 327444120
 | 1. signal recognition particle protein [*Cutibacterium acnes* HL043PA2]
 | 1. 57,0852
 | 1. 10,8
 | 1. 528
 |
| 1. 327448391
 | 1. methylmalonyl-CoA carboxyltransferase 12S subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 56,4265
 | 1. 33,97
 | 1. 524
 |
| 1. 327447533
 | 1. GMP synthase (glutamine-hydrolyzing) domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 55,5965
 | 1. 10,64
 | 1. 517
 |
| 1. 327449145
 | 1. phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase [*Cutibacterium acnes* HL043PA2]
 | 1. 54,9575
 | 1. 12,98
 | 1. 516
 |
| 1. 327446782
 | 1. glycerol kinase [*Cutibacterium acnes* HL043PA2]
 | 1. 56,8473
 | 1. 13,2
 | 1. 515
 |
| 1. 327445108
 | 1. NAD(P)(+) transhydrogenase (AB-specific), alpha subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 54,0842
 | 1. 3,88
 | 1. 515
 |
| 1. 327450419
 | 1. iron-sulfur cluster-binding protein [*Cutibacterium acnes* HL043PA2]
 | 1. 56,9632
 | 1. 5,68
 | 1. 511
 |
| 1. 327445925
 | 1. RNA polymerase sigma factor RpoD [*Cutibacterium acnes* HL043PA2]
 | 1. 55,6427
 | 1. 3,72
 | 1. 511
 |
| 1. 327445032
 | 1. cytosol aminopeptidase family, catalytic domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 52,0522
 | 1. 25,98
 | 1. 508
 |
| 1. 327446016
 | 1. glycine--tRNA ligase [*Cutibacterium acnes* HL043PA2]
 | 1. 57,1606
 | 1. 11,66
 | 1. 506
 |
| 1. 327447643
 | 1. succinate CoA transferase [*Cutibacterium acnes* HL043PA2]
 | 1. 55,0555
 | 1. 15,28
 | 1. 504
 |
| 1. 327447528
 | 1. inosine-5'-monophosphate dehydrogenase [*Cutibacterium acnes* HL043PA2]
 | 1. 53,6595
 | 1. 24,01
 | 1. 504
 |
| 1. 327445824
 | 1. aspartyl/glutamyl-tRNA(Asn/Gln) amidotransferase, A subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 53,0335
 | 1. 8,38
 | 1. 501
 |
| 1. 327447686
 | 1. cellulase (glycosyl hydrolase family 5) [*Cutibacterium acnes* HL043PA2]
 | 1. 54,0388
 | 1. 5,6
 | 1. 500
 |
| 1. 327446207
 | 1. UDP-N-acetylmuramoyl-L-alanyl-D-glutamate--2,6-diaminopimelate ligase [*Cutibacterium acnes* HL043PA2]
 | 1. 52,2162
 | 1. 5,21
 | 1. 499
 |
| 1. 327445083
 | 1. aminopeptidase P domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 55,9833
 | 1. 14,46
 | 1. 498
 |
| 1. 327446180
 | 1. putative ribosomal protein S1 [*Cutibacterium acnes* HL043PA2]
 | 1. 55,1189
 | 1. 25,1
 | 1. 498
 |
| 1. 327448392
 | 1. conserved carboxylase domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 54,6555
 | 1. 28,37
 | 1. 497
 |
| 1. 327445823
 | 1. aspartyl/glutamyl-tRNA(Asn/Gln) amidotransferase, B subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 54,2511
 | 1. 9,46
 | 1. 497
 |
| 1. 327450434
 | 1. lysine--tRNA ligase [*Cutibacterium acnes* HL043PA2]
 | 1. 55,2002
 | 1. 4,66
 | 1. 494
 |
| 1. 327445089
 | 1. cellulase (glycosyl hydrolase family 5) [*Cutibacterium acnes* HL043PA2]
 | 1. 53,0902
 | 1. 5,07
 | 1. 493
 |
| 1. 327449790
 | 1. glycine hydroxymethyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 52,9026
 | 1. 14,66
 | 1. 491
 |
| 1. 327445699
 | 1. ATP synthase F1, beta subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 53,4429
 | 1. 40,49
 | 1. 489
 |
| 1. 327445715
 | 1. putative UDP-N-acetylglucosamine 1-carboxyvinyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 53,7019
 | 1. 11,29
 | 1. 487
 |
| 1. 327446637
 | 1. succinate-semialdehyde dehydrogenase [*Cutibacterium acnes* HL043PA2]
 | 1. 51,8836
 | 1. 6,39
 | 1. 485
 |
| 1. 327446613
 | 1. catalase [*Cutibacterium acnes* HL043PA2]
 | 1. 54,3092
 | 1. 4,97
 | 1. 483
 |
| 1. 327444245
 | 1. FeS assembly protein SufB [*Cutibacterium acnes* HL043PA2]
 | 1. 53,4615
 | 1. 14,73
 | 1. 482
 |
| 1. 327448376
 | 1. adenylosuccinate lyase [*Cutibacterium acnes* HL043PA2]
 | 1. 52,1836
 | 1. 7,76
 | 1. 477
 |
| 1. 327445802
 | 1. glycosyl hydrolase, family 1 [*Cutibacterium acnes* HL043PA2]
 | 1. 55,121
 | 1. 3,57
 | 1. 476
 |
| 1. 327451109
 | 1. argininosuccinate synthase [*Cutibacterium acnes* HL043PA2]
 | 1. 51,8299
 | 1. 14,14
 | 1. 474
 |
| 1. 327445058
 | 1. glutamine synthetase, type I [*Cutibacterium acnes* HL043PA2]
 | 1. 53,2083
 | 1. 17,76
 | 1. 473
 |
| 1. 327449394
 | 1. glutamate--tRNA ligase [*Cutibacterium acnes* HL043PA2]
 | 1. 53,6473
 | 1. 9,11
 | 1. 472
 |
| 1. 327446201
 | 1. UDP-N-acetylmuramate--L-alanine ligase [*Cutibacterium acnes* HL043PA2]
 | 1. 49,4491
 | 1. 15,71
 | 1. 471
 |
| 1. 327446797
 | 1. fumarate hydratase, class II [*Cutibacterium acnes* HL043PA2]
 | 1. 50,7034
 | 1. 12,18
 | 1. 468
 |
| 1. 327443916
 | 1. argininosuccinate lyase [*Cutibacterium acnes* HL043PA2]
 | 1. 50,4988
 | 1. 10,9
 | 1. 468
 |
| 1. 327446003
 | 1. putative alpha,alpha-trehalose-phosphate synthase (UDP-forming) [*Cutibacterium acnes* HL043PA2]
 | 1. 52,8332
 | 1. 11,78
 | 1. 467
 |
| 1. 327445713
 | 1. dihydrolipoyl dehydrogenase [*Cutibacterium acnes* HL043PA2]
 | 1. 49,6976
 | 1. 16,27
 | 1. 467
 |
| 1. 327449929
 | 1. UTP--glucose-1-phosphate uridylyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 51,1487
 | 1. 13,55
 | 1. 465
 |
| 1. 327446545
 | 1. pyridine nucleotide-disulfide oxidoreductase [*Cutibacterium acnes* HL043PA2]
 | 1. 49,6044
 | 1. 7,39
 | 1. 460
 |
| 1. 327449174
 | 1. pyridine nucleotide-disulfide oxidoreductase [*Cutibacterium acnes* HL043PA2]
 | 1. 48,0198
 | 1. 4,58
 | 1. 459
 |
| 1. 327445033
 | 1. 2-oxoglutarate dehydrogenase, E2 component, dihydrolipoamide succinyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 47,5648
 | 1. 29,19
 | 1. 459
 |
| 1. 327445885
 | 1. putative tryptophan 2,3-dioxygenase [*Cutibacterium acnes* HL043PA2]
 | 1. 50,7493
 | 1. 3,71
 | 1. 458
 |
| 1. 327446190
 | 1. pyruvate kinase [*Cutibacterium acnes* HL043PA2]
 | 1. 49,7848
 | 1. 33,62
 | 1. 458
 |
| 1. 327445732
 | 1. ribosome biogenesis GTPase Der [*Cutibacterium acnes* HL043PA2]
 | 1. 49,7877
 | 1. 5,26
 | 1. 456
 |
| 1. 327445776
 | 1. histidine--tRNA ligase [*Cutibacterium acnes* HL043PA2]
 | 1. 50,2328
 | 1. 9,03
 | 1. 454
 |
| 1. 327443723
 | 1. putative hydrolase [*Cutibacterium acnes* HL043PA2]
 | 1. 49,9688
 | 1. 4,42
 | 1. 453
 |
| 1. 327448394
 | 1. PAS domain S-box protein [*Cutibacterium acnes* HL043PA2]
 | 1. 49,1598
 | 1. 14,16
 | 1. 452
 |
| 1. 327449180
 | 1. TQXA domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 47,897
 | 1. 5,97
 | 1. 452
 |
| 1. 327446616
 | 1. putative aspartate ammonia-lyase [*Cutibacterium acnes* HL043PA2]
 | 1. 49,1785
 | 1. 21,51
 | 1. 451
 |
| 1. 327449458
 | 1. phosphoglucosamine mutase [*Cutibacterium acnes* HL043PA2]
 | 1. 47,5134
 | 1. 18,22
 | 1. 450
 |
| 1. 327450255
 | 1. amine oxidase (flavin-containing) [*Cutibacterium acnes* HL043PA2]
 | 1. 47,5902
 | 1. 8,02
 | 1. 449
 |
| 1. 327443351
 | 1. peptidase dimerization domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 47,1711
 | 1. 14,32
 | 1. 447
 |
| 1. 327449220
 | 1. nicotinate phosphoribosyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 47,3962
 | 1. 13,9
 | 1. 446
 |
| 1. 327449724
 | 1. glutamyl-tRNAGlu reductase domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 47,105
 | 1. 17,04
 | 1. 446
 |
| 1. 327445849
 | 1. hypothetical protein HMPREF9571\_01585 [*Cutibacterium acnes* HL043PA2]
 | 1. 48,4552
 | 1. 29,66
 | 1. 445
 |
| 1. 327444207
 | 1. Glu/Leu/Phe/Val dehydrogenase, dimerization domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 48,1119
 | 1. 18,65
 | 1. 445
 |
| 1. 327445963
 | 1. amidohydrolase family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 47,6689
 | 1. 6,29
 | 1. 445
 |
| 1. 327442869
 | 1. NADH oxidoreductase (quinone), F subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 48,5162
 | 1. 11,71
 | 1. 444
 |
| 1. 327446834
 | 1. putative YcaO-like family [*Cutibacterium acnes* HL043PA2]
 | 1. 48,3883
 | 1. 12,44
 | 1. 442
 |
| 1. 327445680
 | 1. homoserine dehydrogenase [*Cutibacterium acnes* HL043PA2]
 | 1. 46,6288
 | 1. 14,29
 | 1. 441
 |
| 1. 327444166
 | 1. glycine betaine/L-proline transport ATP binding subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 48,225
 | 1. 13,21
 | 1. 439
 |
| 1. 327449142
 | 1. 3,4-dihydroxy-2-butanone-4-phosphate synthase [*Cutibacterium acnes* HL043PA2]
 | 1. 46,6248
 | 1. 16,67
 | 1. 438
 |
| 1. 327449718
 | 1. glutamate-1-semialdehyde-2,1-aminomutase [*Cutibacterium acnes* HL043PA2]
 | 1. 45,4128
 | 1. 16,51
 | 1. 436
 |
| 1. 327449935
 | 1. MoeA N-terminal region (domain I and II) [*Cutibacterium acnes* HL043PA2]
 | 1. 45,5819
 | 1. 6,9
 | 1. 435
 |
| 1. 327442867
 | 1. NADH dehydrogenase subunit D [*Cutibacterium acnes* HL043PA2]
 | 1. 47,9817
 | 1. 8,31
 | 1. 433
 |
| 1. 327445779
 | 1. hypothetical protein HMPREF9571\_01515 [*Cutibacterium acnes* HL043PA2]
 | 1. 49,0619
 | 1. 20,37
 | 1. 432
 |
| 1. 327448378
 | 1. adenylosuccinate synthase [*Cutibacterium acnes* HL043PA2]
 | 1. 47,33
 | 1. 20,83
 | 1. 432
 |
| 1. 327446554
 | 1. nucleotide sugar dehydrogenase [*Cutibacterium acnes* HL043PA2]
 | 1. 46,8528
 | 1. 15,05
 | 1. 432
 |
| 1. 327444291
 | 1. hypothetical protein HMPREF9571\_02424 [*Cutibacterium acnes* HL043PA2]
 | 1. 47,0956
 | 1. 5,13
 | 1. 429
 |
| 1. 327445165
 | 1. aminopeptidase I zinc metalloprotease (M18) [*Cutibacterium acnes* HL043PA2]
 | 1. 45,9351
 | 1. 5,14
 | 1. 428
 |
| 1. 327449197
 | 1. phosphoribosylaminoimidazole carboxylase, ATPase subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 45,8699
 | 1. 6,34
 | 1. 426
 |
| 1. 327449991
 | 1. phosphopyruvate hydratase [*Cutibacterium acnes* HL043PA2]
 | 1. 45,514
 | 1. 46,24
 | 1. 426
 |
| 1. 327449117
 | 1. serine--tRNA ligase [*Cutibacterium acnes* HL043PA2]
 | 1. 46,5027
 | 1. 9,43
 | 1. 424
 |
| 1. 327444244
 | 1. FeS assembly protein SufD [*Cutibacterium acnes* HL043PA2]
 | 1. 45,8413
 | 1. 17,22
 | 1. 424
 |
| 1. 327447713
 | 1. hypothetical protein HMPREF9571\_00996 [*Cutibacterium acnes* HL043PA2]
 | 1. 43,2017
 | 1. 46,23
 | 1. 424
 |
| 1. 327449848
 | 1. sirohydrochlorin cobaltochelatase [*Cutibacterium acnes* HL043PA2]
 | 1. 45,4854
 | 1. 4,74
 | 1. 422
 |
| 1. 327448438
 | 1. phosphoribosylaminoimidazolesuccinocarboxamide synthase [*Cutibacterium acnes* HL043PA2]
 | 1. 46,4004
 | 1. 15,24
 | 1. 420
 |
| 1. 327446199
 | 1. cell division protein FtsZ [*Cutibacterium acnes* HL043PA2]
 | 1. 42,8086
 | 1. 14,87
 | 1. 417
 |
| 1. 327446603
 | 1. periplasmic binding protein [*Cutibacterium acnes* HL043PA2]
 | 1. 45,0928
 | 1. 7,45
 | 1. 416
 |
| 1. 327446722
 | 1. DNA polymerase III, beta subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 44,0732
 | 1. 16,18
 | 1. 414
 |
| 1. 327444241
 | 1. cysteine desulfurase, SufS subfamily [*Cutibacterium acnes* HL043PA2]
 | 1. 44,4723
 | 1. 8,23
 | 1. 413
 |
| 1. 327445752
 | 1. phosphopantothenoylcysteine decarboxylase/phosphopantothenate--cysteine ligase [*Cutibacterium acnes* HL043PA2]
 | 1. 42,7904
 | 1. 4,39
 | 1. 410
 |
| 1. 327445093
 | 1. glucose-1-phosphate adenylyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 44,7392
 | 1. 5,64
 | 1. 408
 |
| 1. 7444204
 | 1. 1-deoxy-D-xylulose 5-phosphate reductoisomerase [*Cutibacterium acnes* HL043PA2]
 | 1. 42,3727
 | 1. 10,07
 | 1. 407
 |
| 1. 327445166
 | 1. putative flagellar protein FliS [*Cutibacterium acnes* HL043PA2]
 | 1. 44,2509
 | 1. 8,62
 | 1. 406
 |
| 1. 327446041
 | 1. hypothetical protein HMPREF9571\_01783 [*Cutibacterium acnes* HL043PA2]
 | 1. 43,1674
 | 1. 23,95
 | 1. 405
 |
| 1. 327445862
 | 1. Phosphofructokinase [*Cutibacterium acnes* HL043PA2]
 | 1. 43,4902
 | 1. 32,43
 | 1. 404
 |
| 1. 327446143
 | 1. phosphoglycerate kinase [*Cutibacterium acnes* HL043PA2]
 | 1. 42,1912
 | 1. 47,01
 | 1. 402
 |
| 1. 327449390
 | 1. translation elongation factor Tu [*Cutibacterium acnes* HL043PA2]
 | 1. 44,1124
 | 1. 37,78
 | 1. 397
 |
| 1. 327444122
 | 1. signal recognition particle-docking protein FtsY [*Cutibacterium acnes* HL043PA2]
 | 1. 41,2367
 | 1. 12,37
 | 1. 396
 |
| 1. 327445985
 | 1. ATPase family associated with various cellular activities (AAA) [*Cutibacterium acnes* HL043PA2]
 | 1. 42,687
 | 1. 13,16
 | 1. 395
 |
| 1. 327449826
 | 1. glycine C-acetyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 42,8816
 | 1. 14,72
 | 1. 394
 |
| 1. 327446048
 | 1. putative chaperone protein DnaJ [*Cutibacterium acnes* HL043PA2]
 | 1. 41,8327
 | 1. 12,76
 | 1. 392
 |
| 1. 327449137
 | 1. succinate-CoA ligase, beta subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 41,3311
 | 1. 37,85
 | 1. 391
 |
| 1. 327447636
 | 1. FHA domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 41,1582
 | 1. 8,95
 | 1. 391
 |
| 1. 327451178
 | 1. TIGR00730 family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 42,206
 | 1. 4,11
 | 1. 389
 |
| 1. 327443362
 | 1. NlpC/P60 family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 40,3889
 | 1. 24,48
 | 1. 388
 |
| 1. 327444119
 | 1. amidohydrolase family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 41,9412
 | 1. 8,27
 | 1. 387
 |
| 1. 327445088
 | 1. hypothetical protein HMPREF9571\_02074 [*Cutibacterium acnes* HL043PA2]
 | 1. 40,7534
 | 1. 8,55
 | 1. 386
 |
| 1. 327443707
 | 1. tryptophan--tRNA ligase [*Cutibacterium acnes* HL043PA2]
 | 1. 41,4214
 | 1. 6,77
 | 1. 384
 |
| 1. 327449759
 | 1. phosphate ABC transporter, phosphate-binding protein PstS [*Cutibacterium acnes* HL043PA2]
 | 1. 39,5228
 | 1. 31,33
 | 1. 383
 |
| 1. 327449121
 | 1. acyl-CoA dehydrogenase, C-terminal domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 41,2717
 | 1. 5,24
 | 1. 382
 |
| 1. 327448424
 | 1. chaperone protein DnaJ [*Cutibacterium acnes* HL043PA2]
 | 1. 40,5873
 | 1. 8,16
 | 1. 380
 |
| 1. 327445154
 | 1. Amidinotransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 41,6477
 | 1. 8,73
 | 1. 378
 |
| 1. 327445101
 | 1. Amidinotransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 43,329
 | 1. 28,99
 | 1. 376
 |
| 1. 327446955
 | 1. UDP-N-acetylenolpyruvoylglucosamine reductase domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 39,863
 | 1. 5,59
 | 1. 376
 |
| 1. 327449922
 | 1. putative N-acetylglucosamine-6-phosphate deacetylase [*Cutibacterium acnes* HL043PA2]
 | 1. 39,1119
 | 1. 10,64
 | 1. 376
 |
| 1. 327445144
 | 1. nucleotide sugar dehydrogenase [*Cutibacterium acnes* HL043PA2]
 | 1. 41,4731
 | 1. 6,12
 | 1. 376
 |
| 1. 327446202
 | 1. putative undecaprenyldiphospho-muramoylpentapeptide beta-N-acetylglucosaminyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 38,2132
 | 1. 6,72
 | 1. 372
 |
| 1. 327443908
 | 1. peptide chain release factor 2 [*Cutibacterium acnes* HL043PA2]
 | 1. 41,4429
 | 1. 17,25
 | 1. 371
 |
| 1. 327446217
 | 1. aminomethyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 39,546
 | 1. 4,85
 | 1. 371
 |
| 1. 327445351
 | 1. hypothetical protein HMPREF9571\_01989 [*Cutibacterium acnes* HL043PA2]
 | 1. 39,0608
 | 1. 39,08
 | 1. 371
 |
| 1. 327446565
 | 1. DegT/DnrJ/EryC1/StrS aminotransferase family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 39,2338
 | 1. 21,35
 | 1. 370
 |
| 1. 327444578
 | 1. alanine dehydrogenase [*Cutibacterium acnes* HL043PA2]
 | 1. 38,1094
 | 1. 14,05
 | 1. 370
 |
| 1. 327444365
 | 1. phenylalanine--tRNA ligase, alpha subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 40,1231
 | 1. 5,96
 | 1. 369
 |
| 1. 327444248
 | 1. ABC transporter, solute-binding protein [*Cutibacterium acnes* HL043PA2]
 | 1. 39,7604
 | 1. 5,98
 | 1. 368
 |
| 1. 327447529
 | 1. IMP dehydrogenase family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 39,3409
 | 1. 40,87
 | 1. 367
 |
| 1. 327445105
 | 1. succinyldiaminopimelate transaminase [*Cutibacterium acnes* HL043PA2]
 | 1. 39,0519
 | 1. 4,9
 | 1. 367
 |
| 1. 327449727
 | 1. hypothetical protein HMPREF9571\_00293 [*Cutibacterium acnes* HL043PA2]
 | 1. 40,2009
 | 1. 10,11
 | 1. 366
 |
| 1. 327449816
 | 1. ABC transporter, ATP-binding protein [*Cutibacterium acnes* HL043PA2]
 | 1. 39,6844
 | 1. 9,84
 | 1. 366
 |
| 1. 327447700
 | 1. oxidoreductase, FAD/FMN-binding protein [*Cutibacterium acnes* HL043PA2]
 | 1. 39,0556
 | 1. 15,85
 | 1. 366
 |
| 1. 327443902
 | 1. D-ala D-ala ligase N-terminal domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 39,2359
 | 1. 5,21
 | 1. 365
 |
| 1. 327449152
 | 1. malate dehydrogenase [*Cutibacterium acnes* HL043PA2]
 | 1. 38,7348
 | 1. 33,52
 | 1. 364
 |
| 1. 327446729
 | 1. FemAB family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 40,7178
 | 1. 9,64
 | 1. 363
 |
| 1. 327443892
 | 1. branched-chain-amino-acid transaminase [*Cutibacterium acnes* HL043PA2]
 | 1. 39,8763
 | 1. 31,96
 | 1. 363
 |
| 1. 327446194
 | 1. DivIVA domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 40,1145
 | 1. 38,5
 | 1. 361
 |
| 1. 327446942
 | 1. thiamine pyrophosphate enzyme, C-terminal TPP binding domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 38,4973
 | 1. 9,97
 | 1. 361
 |
| 1. 327445681
 | 1. threonine synthase [*Cutibacterium acnes* HL043PA2]
 | 1. 37,4223
 | 1. 6,15
 | 1. 358
 |
| 1. 327446550
 | 1. UDP-N-acetylglucosamine 2-epimerase [*Cutibacterium acnes* HL043PA2]
 | 1. 38,4964
 | 1. 7,28
 | 1. 357
 |
| 1. 327443873
 | 1. peptidyl-prolyl cis-trans isomerase, FKBP-type [*Cutibacterium acnes* HL043PA2]
 | 1. 36,8285
 | 1. 10,64
 | 1. 357
 |
| 1. 327445771
 | 1. hypothetical protein HMPREF9571\_01507 [*Cutibacterium acnes* HL043PA2]
 | 1. 40,1423
 | 1. 48,31
 | 1. 356
 |
| 1. 327446649
 | 1. UDP-glucose 4-epimerase [*Cutibacterium acnes* HL043PA2]
 | 1. 38,5445
 | 1. 11,33
 | 1. 353
 |
| 1. 327447668
 | 1. pyruvate dehydrogenase E1 component, alpha subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 38,2386
 | 1. 6,27
 | 1. 351
 |
| 1. 327445153
 | 1. ornithine carbamoyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 38,5804
 | 1. 23,14
 | 1. 350
 |
| 1. 327446776
 | 1. thioredoxin-disulfide reductase [*Cutibacterium acnes* HL043PA2]
 | 1. 37,2393
 | 1. 10,57
 | 1. 350
 |
| 1. 327445138
 | 1. LAO/AO transport system ATPase [*Cutibacterium acnes* HL043PA2]
 | 1. 37,2082
 | 1. 19,83
 | 1. 348
 |
| 1. 327445947
 | 1. RecA protein [*Cutibacterium acnes* HL043PA2]
 | 1. 37,1302
 | 1. 36,21
 | 1. 348
 |
| 1. 327448421
 | 1. GroES-like protein [*Cutibacterium acnes* HL043PA2]
 | 1. 36,9161
 | 1. 8,07
 | 1. 347
 |
| 1. 327449734
 | 1. aspartate-semialdehyde dehydrogenase [*Cutibacterium acnes* HL043PA2]
 | 1. 35,9806
 | 1. 22,77
 | 1. 347
 |
| 1. 327449480
 | 1. putative glycoprotease GCP [*Cutibacterium acnes* HL043PA2]
 | 1. 35,9716
 | 1. 16,43
 | 1. 347
 |
| 1. 327446664
 | 1. ABC transporter, ATP-binding protein [*Cutibacterium acnes* HL043PA2]
 | 1. 36,8586
 | 1. 13,37
 | 1. 344
 |
| 1. 327446832
 | 1. putative streptolysin associated protein SagB [*Cutibacterium acnes* HL043PA2]
 | 1. 36,8756
 | 1. 20,7
 | 1. 343
 |
| 1. 327443887
 | 1. ketol-acid reductoisomerase [*Cutibacterium acnes* HL043PA2]
 | 1. 37,3436
 | 1. 6,43
 | 1. 342
 |
| 1. 327445684
 | 1. putative transcription termination factor Rho [*Cutibacterium acnes* HL043PA2]
 | 1. 38,3643
 | 1. 14,91
 | 1. 342
 |
| 1. 327446730
 | 1. alanine racemase domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 37,1985
 | 1. 5,56
 | 1. 342
 |
| 1. 327448397
 | 1. fructose-bisphosphate aldolase, class II [*Cutibacterium acnes* HL043PA2]
 | 1. 36,8194
 | 1. 27,27
 | 1. 341
 |
| 1. 327444163
 | 1. riboflavin biosynthesis protein RibF [*Cutibacterium acnes* HL043PA2]
 | 1. 36,6851
 | 1. 7,65
 | 1. 340
 |
| 1. 327446049
 | 1. heat-inducible transcription repressor HrcA [*Cutibacterium acnes* HL043PA2]
 | 1. 36,3582
 | 1. 9,14
 | 1. 339
 |
| 1. 327449434
 | 1. DNA-directed RNA polymerase, alpha subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 36,8267
 | 1. 36,39
 | 1. 338
 |
| 1. 327449834
 | 1. oxidoreductase, zinc-binding dehydrogenase family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 36,165
 | 1. 9,17
 | 1. 338
 |
| 1. 327450261
 | 1. hypothetical protein HMPREF9571\_00242 [*Cutibacterium acnes* HL043PA2]
 | 1. 36,2868
 | 1. 5,04
 | 1. 337
 |
| 1. 327446033
 | 1. prolyl aminopeptidase [*Cutibacterium acnes* HL043PA2]
 | 1. 37,7714
 | 1. 17,01
 | 1. 335
 |
| 1. 327449699
 | 1. hypothetical protein HMPREF9571\_00265 [*Cutibacterium acnes* HL043PA2]
 | 1. 37,4598
 | 1. 7,16
 | 1. 335
 |
| 1. 327446144
 | 1. glyceraldehyde-3-phosphate dehydrogenase, type I [*Cutibacterium acnes* HL043PA2]
 | 1. 35,9276
 | 1. 73,13
 | 1. 335
 |
| 1. 327451095
 | 1. hypothetical protein HMPREF9571\_00034, partial [*Cutibacterium acnes* HL043PA2]
 | 1. 34,3863
 | 1. 34,63
 | 1. 335
 |
| 1. 327447667
 | 1. Transketolase, pyridine binding domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 36,3015
 | 1. 21,26
 | 1. 334
 |
| 1. 327443377
 | 1. dihydroxyacetone kinase, DhaK subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 34,6556
 | 1. 10,21
 | 1. 333
 |
| 1. 327445977
 | 1. beta-ketoacyl-acyl-carrier-protein synthase III [*Cutibacterium acnes* HL043PA2]
 | 1. 35,2539
 | 1. 8,13
 | 1. 332
 |
| 1. 327449896
 | 1. AP endonuclease, family 2 [*Cutibacterium acnes* HL043PA2]
 | 1. 36,5881
 | 1. 14,46
 | 1. 332
 |
| 1. 327444359
 | 1. tyrosine--tRNA ligase [*Cutibacterium acnes* HL043PA2]
 | 1. 36,7827
 | 1. 5,44
 | 1. 331
 |
| 1. 327446564
 | 1. oxidoreductase, NAD-binding domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 35,5402
 | 1. 26,67
 | 1. 330
 |
| 1. 327446833
 | 1. hypothetical protein HMPREF9571\_01087 [*Cutibacterium acnes* HL043PA2]
 | 1. 35,7231
 | 1. 10,06
 | 1. 328
 |
| 1. 327450410
 | 1. putative dihydroorotate dehydrogenase 2 [*Cutibacterium acnes* HL043PA2]
 | 1. 34,6635
 | 1. 32,42
 | 1. 327
 |
| 1. 327442879
 | 1. polyprenyl synthetase [*Cutibacterium acnes* HL043PA2]
 | 1. 34,6627
 | 1. 8,95
 | 1. 324
 |
| 1. 327444188
 | 1. transcription termination factor NusA [*Cutibacterium acnes* HL043PA2]
 | 1. 35,7166
 | 1. 4,64
 | 1. 323
 |
| 1. 327448382
 | 1. dihydrodipicolinate synthetase family [*Cutibacterium acnes* HL043PA2]
 | 1. 34,4606
 | 1. 6,81
 | 1. 323
 |
| 1. 327445148
 | 1. oxidoreductase, aldo/keto reductase family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 34,8244
 | 1. 17,08
 | 1. 322
 |
| 1. 327446078
 | 1. L-lactate dehydrogenase [*Cutibacterium acnes* HL043PA2]
 | 1. 33,9924
 | 1. 6,83
 | 1. 322
 |
| 1. 327443371
 | 1. lactate/malate dehydrogenase, NAD binding domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 33,6428
 | 1. 15,89
 | 1. 321
 |
| 1. 327446213
 | 1. ATPase family associated with various cellular activities (AAA) [*Cutibacterium acnes* HL043PA2]
 | 1. 34,395
 | 1. 9,12
 | 1. 318
 |
| 1. 327445829
 | 1. methionine synthase, vitamin-B12 independent [*Cutibacterium acnes* HL043PA2]
 | 1. 33,5973
 | 1. 5,71
 | 1. 315
 |
| 1. 327446780
 | 1. putative sugar-binding domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 33,5603
 | 1. 6,98
 | 1. 315
 |
| 1. 327448409
 | 1. putative fructose-bisphosphate aldolase class-I [*Cutibacterium acnes* HL043PA2]
 | 1. 34,724
 | 1. 37,26
 | 1. 314
 |
| 1. 327445964
 | 1. aspartate carbamoyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 34,7149
 | 1. 28,66
 | 1. 314
 |
| 1. 327445698
 | 1. ATP synthase F1, gamma subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 34,5417
 | 1. 23,89
 | 1. 314
 |
| 1. 327445843
 | 1. thioredoxin [*Cutibacterium acnes* HL043PA2]
 | 1. 33,1149
 | 1. 5,43
 | 1. 313
 |
| 1. 327449719
 | 1. porphobilinogen synthase [*Cutibacterium acnes* HL043PA2]
 | 1. 33,4195
 | 1. 23,47
 | 1. 311
 |
| 1. 327446950
 | 1. enoyl-CoA hydratase/isomerase family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 33,1245
 | 1. 7,72
 | 1. 311
 |
| 1. 327449976
 | 1. ribose-phosphate diphosphokinase [*Cutibacterium acnes* HL043PA2]
 | 1. 33,9934
 | 1. 9,35
 | 1. 310
 |
| 1. 327449994
 | 1. Ppx/GppA phosphatase family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 32,7367
 | 1. 6,45
 | 1. 310
 |
| 1. 327445807
 | 1. N-acetylmuramic acid 6-phosphate etherase [*Cutibacterium acnes* HL043PA2]
 | 1. 31,2779
 | 1. 6,58
 | 1. 304
 |
| 1. 327446958
 | 1. transcription termination/antitermination factor NusG [*Cutibacterium acnes* HL043PA2]
 | 1. 33,4752
 | 1. 9,9
 | 1. 303
 |
| 1. 327445040
 | 1. Tat pathway signal sequence domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 32,5854
 | 1. 8,91
 | 1. 303
 |
| 1. 327449970
 | 1. hydrolase, TatD family [*Cutibacterium acnes* HL043PA2]
 | 1. 32,3613
 | 1. 8,94
 | 1. 302
 |
| 1. 327445739
 | 1. hypothetical protein HMPREF9571\_01475 [*Cutibacterium acnes* HL043PA2]
 | 1. 33,2098
 | 1. 10,96
 | 1. 301
 |
| 1. 327446059
 | 1. naphthoate synthase [*Cutibacterium acnes* HL043PA2]
 | 1. 33,1334
 | 1. 8,31
 | 1. 301
 |
| 1. 327449401
 | 1. 50S ribosomal protein L4 [*Cutibacterium acnes* HL043PA2]
 | 1. 32,2785
 | 1. 43,52
 | 1. 301
 |
| 1. 327445152
 | 1. carbamate kinase [*Cutibacterium acnes* HL043PA2]
 | 1. 31,9773
 | 1. 8,31
 | 1. 301
 |
| 1. 327449477
 | 1. hydrolase, P-loop family [*Cutibacterium acnes* HL043PA2]
 | 1. 30,7598
 | 1. 9,09
 | 1. 297
 |
| 1. 327449138
 | 1. succinate-CoA ligase, alpha subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 30,5618
 | 1. 48,15
 | 1. 297
 |
| 1. 327446684
 | 1. putative histidinol-phosphate transaminase [*Cutibacterium acnes* HL043PA2]
 | 1. 32,0123
 | 1. 13,22
 | 1. 295
 |
| 1. 327448374
 | 1. putative alkyl hydroperoxide reductase, F subunit, partial [*Cutibacterium acnes* HL043PA2]
 | 1. 31,1971
 | 1. 6,78
 | 1. 295
 |
| 1. 327445091
 | 1. dihydrodipicolinate synthase [*Cutibacterium acnes* HL043PA2]
 | 1. 30,6707
 | 1. 7,17
 | 1. 293
 |
| 1. 327451296
 | 1. Tat pathway signal sequence domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 30,5829
 | 1. 8,53
 | 1. 293
 |
| 1. 327449890
 | 1. myo-inositol catabolism protein IolB [*Cutibacterium acnes* HL043PA2]
 | 1. 31,7904
 | 1. 22,76
 | 1. 290
 |
| 1. 327445976
 | 1. hypothetical protein HMPREF9571\_01716 [*Cutibacterium acnes* HL043PA2]
 | 1. 30,0844
 | 1. 30,34
 | 1. 290
 |
| 1. 327445184
 | 1. oxidoreductase, aldo/keto reductase family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 31,525
 | 1. 11,85
 | 1. 287
 |
| 1. 327449149
 | 1. tetrahydrofolate dehydrogenase/cyclohydrolase, NAD(P)-binding domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 30,2778
 | 1. 39,37
 | 1. 287
 |
| 1. 327443795
 | 1. hypothetical protein HMPREF9571\_02536 [*Cutibacterium acnes* HL043PA2]
 | 1. 30,3937
 | 1. 30,18
 | 1. 285
 |
| 1. 327444372
 | 1. ATP phosphoribosyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 30,5918
 | 1. 15,14
 | 1. 284
 |
| 1. 327445930
 | 1. universal stress family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 29,2281
 | 1. 15,14
 | 1. 284
 |
| 1. 327444215
 | 1. ribosomal protein S2 [*Cutibacterium acnes* HL043PA2]
 | 1. 31,5164
 | 1. 32,51
 | 1. 283
 |
| 1. 327449153
 | 1. putative formyltetrahydrofolate deformylase [*Cutibacterium acnes* HL043PA2]
 | 1. 31,1939
 | 1. 10,25
 | 1. 283
 |
| 1. 327445745
 | 1. hypothetical protein HMPREF9571\_01481 [*Cutibacterium acnes* HL043PA2]
 | 1. 29,8242
 | 1. 6,05
 | 1. 281
 |
| 1. 327444299
 | 1. acyl-CoA thioester hydrolase, YbgC/YbaW family [*Cutibacterium acnes* HL043PA2]
 | 1. 30,8817
 | 1. 7,47
 | 1. 281
 |
| 1. 327449428
 | 1. methionine aminopeptidase, type I [*Cutibacterium acnes* HL043PA2]
 | 1. 29,959
 | 1. 7,53
 | 1. 279
 |
| 1. 327445997
 | 1. pyridoxal 5'-phosphate synthase, synthase subunit Pdx1 [*Cutibacterium acnes* HL043PA2]
 | 1. 29,1149
 | 1. 68,46
 | 1. 279
 |
| 1. 327449403
 | 1. ribosomal protein L2 [*Cutibacterium acnes* HL043PA2]
 | 1. 30,2282
 | 1. 17,63
 | 1. 278
 |
| 1. 327445737
 | 1. proteasome, beta subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 29,5598
 | 1. 8,63
 | 1. 278
 |
| 1. 327446080
 | 1. putative hydroxyethylthiazole kinase [*Cutibacterium acnes* HL043PA2]
 | 1. 28,3904
 | 1. 12,64
 | 1. 277
 |
| 1. 327442866
 | 1. NADH dehydrogenase, C subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 30,569
 | 1. 11,68
 | 1. 274
 |
| 1. 327445939
 | 1. diaminopimelate epimerase [*Cutibacterium acnes* HL043PA2]
 | 1. 29,7795
 | 1. 8,79
 | 1. 273
 |
| 1. 327447715
 | 1. oxidoreductase, aldo/keto reductase family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 29,721
 | 1. 12,09
 | 1. 273
 |
| 1. 327445719
 | 1. glycosyltransferase, group 2 family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 30,1724
 | 1. 10,29
 | 1. 272
 |
| 1. 327443369
 | 1. putative HAD hydrolase, TIGR01457 family [*Cutibacterium acnes* HL043PA2]
 | 1. 29,732
 | 1. 12,87
 | 1. 272
 |
| 1. 327449116
 | 1. hypothetical protein HMPREF9571\_00834 [*Cutibacterium acnes* HL043PA2]
 | 1. 29,7289
 | 1. 20,59
 | 1. 272
 |
| 1. 327451135
 | 1. hypothetical protein HMPREF9571\_00078 [*Cutibacterium acnes* HL043PA2]
 | 1. 29,1008
 | 1. 15,13
 | 1. 271
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| 1. 327444158
 | 1. hypothetical protein HMPREF9571\_02289 [*Cutibacterium acnes* HL043PA2]
 | 1. 29,2495
 | 1. 8,86
 | 1. 271
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| 1. 327444214
 | 1. translation elongation factor Ts [*Cutibacterium acnes* HL043PA2]
 | 1. 28,4705
 | 1. 31,85
 | 1. 270
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| 1. 327449173
 | 1. putative purine nucleotide phosphorylase [*Cutibacterium acnes* HL043PA2]
 | 1. 27,6565
 | 1. 30
 | 1. 270
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| 1. 327450249
 | 1. DoxX family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 29,4094
 | 1. 14,81
 | 1. 270
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| 1. 327449406
 | 1. ribosomal protein S3 [*Cutibacterium acnes* HL043PA2]
 | 1. 29,6556
 | 1. 34,57
 | 1. 269
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| 1. 327449069
 | 1. aminotransferase, class IV [*Cutibacterium acnes* HL043PA2]
 | 1. 28,8386
 | 1. 11,52
 | 1. 269
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| 1. 327446535
 | 1. CobQ/CobB/MinD/ParA nucleotide binding domain protein, partial [*Cutibacterium acnes* HL043PA2]
 | 1. 27,8867
 | 1. 7,84
 | 1. 268
 |
| 1. 327445028
 | 1. PspA/IM30 family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 29,5078
 | 1. 46,44
 | 1. 267
 |
| 1. 327449184
 | 1. putative phosphomethylpyrimidine kinase [*Cutibacterium acnes* HL043PA2]
 | 1. 27,9133
 | 1. 23,22
 | 1. 267
 |
| 1. 327446560
 | 1. oxidoreductase, short chain dehydrogenase/reductase family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 28,5475
 | 1. 38,35
 | 1. 266
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| 1. 327445789
 | 1. DNA-binding regulatory protein, YebC/PmpR family [*Cutibacterium acnes* HL043PA2]
 | 1. 28,7785
 | 1. 7,58
 | 1. 264
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| 1. 327449745
 | 1. oxidoreductase, short chain dehydrogenase/reductase family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 28,1674
 | 1. 16,67
 | 1. 264
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| 1. 327445696
 | 1. ATP synthase F1, delta subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 28,4299
 | 1. 26,62
 | 1. 263
 |
| 1. 327442868
 | 1. NADH dehydrogenase subunit E [*Cutibacterium acnes* HL043PA2]
 | 1. 28,4199
 | 1. 19,92
 | 1. 261
 |
| 1. 327444226
 | 1. ABC transporter, ATP-binding protein [*Cutibacterium acnes* HL043PA2]
 | 1. 28,0096
 | 1. 17,24
 | 1. 261
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| 1. 327446142
 | 1. triose-phosphate isomerase [*Cutibacterium acnes* HL043PA2]
 | 1. 27,4409
 | 1. 22,01
 | 1. 259
 |
| 1. 327449756
 | 1. phosphate ABC transporter, ATP-binding protein [*Cutibacterium acnes* HL043PA2]
 | 1. 28,3666
 | 1. 8,14
 | 1. 258
 |
| 1. 327449863
 | 1. uroporphyrinogen-III C-methyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 26,7818
 | 1. 31,78
 | 1. 258
 |
| 1. 327444242
 | 1. FeS assembly ATPase SufC [*Cutibacterium acnes* HL043PA2]
 | 1. 27,9633
 | 1. 43,97
 | 1. 257
 |
| 1. 327444112
 | 1. succinate dehydrogenase/fumarate reductase iron-sulfur subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 27,5455
 | 1. 14,4
 | 1. 257
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| 1. 327444228
 | 1. putative enoyl-(acyl carrier protein) reductase [*Cutibacterium acnes* HL043PA2]
 | 1. 27,214
 | 1. 13,62
 | 1. 257
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| 1. 327445081
 | 1. putative zinc ribbon domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 28,6266
 | 1. 9,38
 | 1. 256
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| 1. 327449702
 | 1. LamB/YcsF family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 26,5104
 | 1. 15,63
 | 1. 256
 |
| 1. 327449227
 | 1. tRNA nucleotidyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 27,1039
 | 1. 14,17
 | 1. 254
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| 1. 327449867
 | 1. hypothetical protein HMPREF9571\_00433 [*Cutibacterium acnes* HL043PA2]
 | 1. 28,3866
 | 1. 10,24
 | 1. 254
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| 1. 327449784
 | 1. phosphoglycerate mutase 1 family [*Cutibacterium acnes* HL043PA2]
 | 1. 27,9732
 | 1. 34,54
 | 1. 249
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| 1. 327446150
 | 1. phosphoglycerate mutase family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 26,9457
 | 1. 7,66
 | 1. 248
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| 1. 327444159
 | 1. dihydrodipicolinate reductase [*Cutibacterium acnes* HL043PA2]
 | 1. 25,928
 | 1. 13,82
 | 1. 246
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| 1. 327443872
 | 1. pseudouridylate synthase [*Cutibacterium acnes* HL043PA2]
 | 1. 27,3936
 | 1. 16,33
 | 1. 245
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| 1. 327449769
 | 1. oxidoreductase, short chain dehydrogenase/reductase family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 25,701
 | 1. 14,69
 | 1. 245
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| 1. 327445900
 | 1. hypothetical protein HMPREF9571\_01640 [*Cutibacterium acnes* HL043PA2]
 | 1. 26,91
 | 1. 46,72
 | 1. 244
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| 1. 327447632
 | 1. response regulator receiver domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 27,3162
 | 1. 13,58
 | 1. 243
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| 1. 327450482
 | 1. cyclic nucleotide-binding domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 26,2065
 | 1. 11,93
 | 1. 243
 |
| 1. 327449720
 | 1. uroporphyrinogen-III synthase [*Cutibacterium acnes* HL043PA2]
 | 1. 25,1626
 | 1. 10,37
 | 1. 241
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| 1. 327449923
 | 1. iron dependent repressor DNA binding domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 26,2862
 | 1. 10
 | 1. 240
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| 1. 327445326
 | 1. FCD domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 26,0642
 | 1. 20,08
 | 1. 239
 |
| 1. 327443896
 | 1. transcriptional regulator, IclR family, C-terminal domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 24,9494
 | 1. 14,64
 | 1. 239
 |
| 1. 327444201
 | 1. TENA/THI-4 family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 26,6043
 | 1. 10,46
 | 1. 239
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| 1. 327444213
 | 1. UMP kinase [*Cutibacterium acnes* HL043PA2]
 | 1. 25,6977
 | 1. 36,13
 | 1. 238
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| 1. 327445958
 | 1. orotidine 5'-phosphate decarboxylase [*Cutibacterium acnes* HL043PA2]
 | 1. 24,3475
 | 1. 16,53
 | 1. 236
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| 1. 327446551
 | 1. glycosyltransferase, group 1 family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 25,1218
 | 1. 11,54
 | 1. 234
 |
| 1. 327445671
 | 1. RNA polymerase sigma-70 factor [*Cutibacterium acnes* HL043PA2]
 | 1. 26,3122
 | 1. 11,11
 | 1. 234
 |
| 1. 327446960
 | 1. ribosomal protein L1 [*Cutibacterium acnes* HL043PA2]
 | 1. 24,7229
 | 1. 43,1
 | 1. 232
 |
| 1. 327445157
 | 1. DJ-1/PfpI family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 24,4872
 | 1. 10,92
 | 1. 229
 |
| 1. 327448381
 | 1. putative N-acetylmannosamine-6-phosphate epimerase [*Cutibacterium acnes* HL043PA2]
 | 1. 24,0112
 | 1. 31,44
 | 1. 229
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| 1. 327449423
 | 1. glycerophosphodiester phosphodiesterase family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 25,1787
 | 1. 13,16
 | 1. 228
 |
| 1. 327443909
 | 1. cell division ATP-binding protein FtsE [*Cutibacterium acnes* HL043PA2]
 | 1. 25,5515
 | 1. 8,77
 | 1. 228
 |
| 1. 327446163
 | 1. periplasmic binding protein [*Cutibacterium acnes* HL043PA2]
 | 1. 24,6392
 | 1. 12,78
 | 1. 227
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| 1. 327445736
 | 1. proteasome, alpha subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 24,2974
 | 1. 7,96
 | 1. 226
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| 1. 327450420
 | 1. hypothetical protein HMPREF9571\_00142 [*Cutibacterium acnes* HL043PA2]
 | 1. 23,9674
 | 1. 7,08
 | 1. 226
 |
| 1. 327449779
 | 1. response regulator receiver domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 25,1562
 | 1. 12,83
 | 1. 226
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| 1. 327445897
 | 1. TrkA N-terminal domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 24,734
 | 1. 22,22
 | 1. 225
 |
| 1. 327449400
 | 1. 50S ribosomal protein L3 [*Cutibacterium acnes* HL043PA2]
 | 1. 23,4984
 | 1. 28,25
 | 1. 223
 |
| 1. 327446018
 | 1. response regulator receiver domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 23,9958
 | 1. 8,07
 | 1. 223
 |
| 1. 327445744
 | 1. ribulose-phosphate 3-epimerase [*Cutibacterium acnes* HL043PA2]
 | 1. 24,1126
 | 1. 16,14
 | 1. 223
 |
| 1. 327449781
 | 1. phosphate transport system regulatory protein PhoU [*Cutibacterium acnes* HL043PA2]
 | 1. 24,4103
 | 1. 18,47
 | 1. 222
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| 1. 327448425
 | 1. co-chaperone GrpE [*Cutibacterium acnes* HL043PA2]
 | 1. 24,3015
 | 1. 12,22
 | 1. 221
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| 1. 327445702
 | 1. ATP:cob(I)alamin adenosyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 24,0792
 | 1. 15,84
 | 1. 221
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| 1. 327445908
 | 1. hypothetical protein HMPREF9571\_01648 [*Cutibacterium acnes* HL043PA2]
 | 1. 23,7866
 | 1. 12,27
 | 1. 220
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| 1. 327445296
 | 1. hypothetical protein HMPREF9571\_02000 [*Cutibacterium acnes* HL043PA2]
 | 1. 23,1003
 | 1. 26,15
 | 1. 218
 |
| 1. 327443376
 | 1. dihydroxyacetone kinase, L subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 22,1231
 | 1. 32,57
 | 1. 218
 |
| 1. 327445092
 | 1. O-methyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 23,3181
 | 1. 11,06
 | 1. 217
 |
| 1. 327445957
 | 1. orotate phosphoribosyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 23,0188
 | 1. 13,89
 | 1. 216
 |
| 1. 327446957
 | 1. preprotein translocase, SecE subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 23,5371
 | 1. 16,2
 | 1. 216
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| 1. 327446187
 | 1. response regulator receiver domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 23,8211
 | 1. 37,67
 | 1. 215
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| 1. 327449070
 | 1. transcriptional regulator, TetR family [*Cutibacterium acnes* HL043PA2]
 | 1. 23,3531
 | 1. 26,05
 | 1. 215
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| 1. 327445339
 | 1. hypothetical protein HMPREF9571\_01977 [*Cutibacterium acnes* HL043PA2]
 | 1. 23,2977
 | 1. 8,37
 | 1. 215
 |
| 1. 327449417
 | 1. ribosomal protein S5 [*Cutibacterium acnes* HL043PA2]
 | 1. 22,5519
 | 1. 30,7
 | 1. 215
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| 1. 327444369
 | 1. translation initiation factor IF-3 [*Cutibacterium acnes* HL043PA2]
 | 1. 24,0418
 | 1. 27,23
 | 1. 213
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| 1. 327443802
 | 1. ribosomal subunit interface protein [*Cutibacterium acnes* HL043PA2]
 | 1. 23,7463
 | 1. 37,74
 | 1. 212
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| 1. 327445822
 | 1. TIGR03085 family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 23,1272
 | 1. 13,74
 | 1. 211
 |
| 1. 327449412
 | 1. ribosomal protein L5 [*Cutibacterium acnes* HL043PA2]
 | 1. 23,8435
 | 1. 35,24
 | 1. 210
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| 1. 327445670
 | 1. DoxX family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 21,9569
 | 1. 29,52
 | 1. 210
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| 1. 327451126
 | 1. uracil phosphoribosyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 22,6387
 | 1. 17,79
 | 1. 208
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| 1. 327451297
 | 1. hypothetical protein HMPREF9571\_00027 [*Cutibacterium acnes* HL043PA2]
 | 1. 21,9161
 | 1. 10,14
 | 1. 207
 |
| 1. 327449144
 | 1. phosphoribosylglycinamide formyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 22,2486
 | 1. 11,11
 | 1. 207
 |
| 1. 327449980
 | 1. ribosomal protein L25, Ctc-form [*Cutibacterium acnes* HL043PA2]
 | 1. 22,3085
 | 1. 7,8
 | 1. 205
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| 1. 327446566
 | 1. bacterial transferase hexapeptide repeat protein [*Cutibacterium acnes* HL043PA2]
 | 1. 21,7039
 | 1. 31,71
 | 1. 205
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| 1. 327449442
 | 1. superoxide dismutase [*Cutibacterium acnes* HL043PA2]
 | 1. 23,3234
 | 1. 8,29
 | 1. 205
 |
| 1. 327446961
 | 1. ribosomal protein L10 [*Cutibacterium acnes* HL043PA2]
 | 1. 20,9161
 | 1. 50,49
 | 1. 204
 |
| 1. 327449141
 | 1. riboflavin synthase, alpha subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 21,5371
 | 1. 15,69
 | 1. 204
 |
| 1. 327446728
 | 1. R3H domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 22,2115
 | 1. 8,87
 | 1. 203
 |
| 1. 327444311
 | 1. oligoribonuclease [*Cutibacterium acnes* HL043PA2]
 | 1. 22,5422
 | 1. 23,27
 | 1. 202
 |
| 1. 327449433
 | 1. ribosomal protein S4 [*Cutibacterium acnes* HL043PA2]
 | 1. 23,1714
 | 1. 35,82
 | 1. 201
 |
| 1. 327442872
 | 1. NADH-quinone oxidoreductase, chain I [*Cutibacterium acnes* HL043PA2]
 | 1. 22,3223
 | 1. 17,17
 | 1. 198
 |
| 1. 327445981
 | 1. pyridoxal phosphate enzyme, YggS family [*Cutibacterium acnes* HL043PA2]
 | 1. 21,785
 | 1. 11,11
 | 1. 198
 |
| 1. 327445869
 | 1. FHA domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 20,4459
 | 1. 22,4
 | 1. 192
 |
| 1. 327450463
 | 1. transcriptional regulator, PadR family [*Cutibacterium acnes* HL043PA2]
 | 1. 21,441
 | 1. 13,61
 | 1. 191
 |
| 1. 327445965
 | 1. pyrimidine operon regulatory protein/uracil phosphoribosyltransferase PyrR [*Cutibacterium acnes* HL043PA2]
 | 1. 20,8941
 | 1. 46,6
 | 1. 191
 |
| 1. 327445757
 | 1. translation elongation factor P [*Cutibacterium acnes* HL043PA2]
 | 1. 21,1367
 | 1. 8,47
 | 1. 189
 |
| 1. 327449427
 | 1. adenylate kinase [*Cutibacterium acnes* HL043PA2]
 | 1. 20,8857
 | 1. 35,45
 | 1. 189
 |
| 1. 327448439
 | 1. peroxiredoxin [*Cutibacterium acnes* HL043PA2]
 | 1. 20,8042
 | 1. 35,29
 | 1. 187
 |
| 1. 327444212
 | 1. ribosome recycling factor [*Cutibacterium acnes* HL043PA2]
 | 1. 20,9168
 | 1. 38,04
 | 1. 184
 |
| 1. 327450262
 | 1. inorganic diphosphatase [*Cutibacterium acnes* HL043PA2]
 | 1. 20,7478
 | 1. 10,33
 | 1. 184
 |
| 1. 327445695
 | 1. ATP synthase F0, B subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 20,1494
 | 1. 11,96
 | 1. 184
 |
| 1. 327449105
 | 1. single-strand binding family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 19,3752
 | 1. 16,85
 | 1. 184
 |
| 1. 327449415
 | 1. ribosomal protein L6 [*Cutibacterium acnes* HL043PA2]
 | 1. 19,8247
 | 1. 31,67
 | 1. 180
 |
| 1. 327449435
 | 1. ribosomal protein L17 [*Cutibacterium acnes* HL043PA2]
 | 1. 19,1911
 | 1. 20,11
 | 1. 179
 |
| 1. 327444116
 | 1. 16S rRNA processing protein RimM [*Cutibacterium acnes* HL043PA2]
 | 1. 19,428
 | 1. 13,97
 | 1. 179
 |
| 1. 327451159
 | 1. intracellular protease, PfpI family [*Cutibacterium acnes* HL043PA2]
 | 1. 19,0128
 | 1. 16,76
 | 1. 179
 |
| 1. 327444189
 | 1. hypothetical protein HMPREF9571\_02320 [*Cutibacterium acnes* HL043PA2]
 | 1. 19,5229
 | 1. 9,55
 | 1. 178
 |
| 1. 327450229
 | 1. hypothetical protein HMPREF9571\_00209 [*Cutibacterium acnes* HL043PA2]
 | 1. 18,1967
 | 1. 19,1
 | 1. 178
 |
| 1. 327445782
 | 1. adenine phosphoribosyltransferase [*Cutibacterium acnes* HL043PA2]
 | 1. 18,3547
 | 1. 20,9
 | 1. 177
 |
| 1. 327447720
 | 1. ferritin-like protein [*Cutibacterium acnes* HL043PA2]
 | 1. 19,0296
 | 1. 18,18
 | 1. 176
 |
| 1. 327450278
 | 1. 2-amino-4-hydroxy-6-hydroxymethyldihydropteridine diphosphokinase [*Cutibacterium acnes* HL043PA2]
 | 1. 19,0767
 | 1. 16,57
 | 1. 175
 |
| 1. 327448385
 | 1. hypothetical protein HMPREF9571\_00868 [*Cutibacterium acnes* HL043PA2]
 | 1. 19,1431
 | 1. 13,14
 | 1. 175
 |
| 1. 327446588
 | 1. hypothetical protein HMPREF9571\_01154 [*Cutibacterium acnes* HL043PA2]
 | 1. 19,9241
 | 1. 20,69
 | 1. 174
 |
| 1. 327446831
 | 1. hypothetical protein HMPREF9571\_01086 [*Cutibacterium acnes* HL043PA2]
 | 1. 19,7591
 | 1. 9,77
 | 1. 174
 |
| 1. 327449457
 | 1. ribosomal protein S9 [*Cutibacterium acnes* HL043PA2]
 | 1. 18,5878
 | 1. 20,81
 | 1. 173
 |
| 1. 327446196
 | 1. hypothetical protein HMPREF9571\_01940 [*Cutibacterium acnes* HL043PA2]
 | 1. 19,4377
 | 1. 13,95
 | 1. 172
 |
| 1. 327449110
 | 1. ferritin-like protein [*Cutibacterium acnes* HL043PA2]
 | 1. 19,0304
 | 1. 36,05
 | 1. 172
 |
| 1. 327449808
 | 1. hypothetical protein HMPREF9571\_00374 [*Cutibacterium acnes* HL043PA2]
 | 1. 18,5022
 | 1. 18,02
 | 1. 172
 |
| 1. 327445149
 | 1. ACT domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 18,3715
 | 1. 13,95
 | 1. 172
 |
| 1. 327449988
 | 1. hypothetical protein HMPREF9571\_00558 [*Cutibacterium acnes* HL043PA2]
 | 1. 17,9651
 | 1. 11,7
 | 1. 171
 |
| 1. 327445350
 | 1. peptidyl-prolyl cis-trans isomerase, cyclophilin-type [*Cutibacterium acnes* HL043PA2]
 | 1. 18,3522
 | 1. 22,35
 | 1. 170
 |
| 1. 327445178
 | 1. prokaryotic transcription elongation factor, GreA/GreB domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 18,3008
 | 1. 12,5
 | 1. 168
 |
| 1. 327444240
 | 1. SUF system FeS assembly protein, NifU family [*Cutibacterium acnes* HL043PA2]
 | 1. 18,2898
 | 1. 22,89
 | 1. 166
 |
| 1. 327449143
 | 1. 6,7-dimethyl-8-ribityllumazine synthase [*Cutibacterium acnes* HL043PA2]
 | 1. 16,7725
 | 1. 10,84
 | 1. 166
 |
| 1. 327445050
 | 1. PTS system, glucose subfamily, IIA component [*Cutibacterium acnes* HL043PA2]
 | 1. 16,8165
 | 1. 15,24
 | 1. 164
 |
| 1. 327449777
 | 1. CarD-like protein [*Cutibacterium acnes* HL043PA2]
 | 1. 18,1987
 | 1. 30,43
 | 1. 161
 |
| 1. 327446193
 | 1. C4-type zinc finger protein, DksA/TraR family [*Cutibacterium acnes* HL043PA2]
 | 1. 17,2182
 | 1. 9,43
 | 1. 159
 |
| 1. 327451171
 | 1. hypothetical protein HMPREF9571\_00115, partial [*Cutibacterium acnes* HL043PA2]
 | 1. 16,6993
 | 1. 14,56
 | 1. 158
 |
| 1. 327444290
 | 1. ribose 5-phosphate isomerase [*Cutibacterium acnes* HL043PA2]
 | 1. 17,2045
 | 1. 17,2
 | 1. 157
 |
| 1. 327448423
 | 1. transcriptional regulator, MerR family [*Cutibacterium acnes* HL043PA2]
 | 1. 17,249
 | 1. 10,46
 | 1. 153
 |
| 1. 327449405
 | 1. ribosomal protein L22 [*Cutibacterium acnes* HL043PA2]
 | 1. 16,699
 | 1. 30,07
 | 1. 153
 |
| 1. 327449100
 | 1. phosphoenolpyruvate-dependent sugar phosphotransferase system, EIIA 2 [*Cutibacterium acnes* HL043PA2]
 | 1. 15,9764
 | 1. 17,65
 | 1. 153
 |
| 1. 327445848
 | 1. methylmalonyl-CoA epimerase [*Cutibacterium acnes* HL043PA2]
 | 1. 16,7934
 | 1. 25,66
 | 1. 152
 |
| 1. 327445329
 | 1. Hsp20/alpha crystallin family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 16,6995
 | 1. 23,68
 | 1. 152
 |
| 1. 327445969
 | 1. hypothetical protein HMPREF9571\_01709 [*Cutibacterium acnes* HL043PA2]
 | 1. 16,426
 | 1. 19,21
 | 1. 151
 |
| 1. 327450481
 | 1. endoribonuclease L-PSP [*Cutibacterium acnes* HL043PA2]
 | 1. 14,9469
 | 1. 23,84
 | 1. 151
 |
| 1. 327449107
 | 1. ribosomal protein L9 [*Cutibacterium acnes* HL043PA2]
 | 1. 16,108
 | 1. 22,15
 | 1. 149
 |
| 1. 327444118
 | 1. ribosomal protein S16 [*Cutibacterium acnes* HL043PA2]
 | 1. 15,9462
 | 1. 52,38
 | 1. 147
 |
| 1. 327445700
 | 1. ATP synthase F1, epsilon subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 16,0202
 | 1. 15,07
 | 1. 146
 |
| 1. 327449925
 | 1. thioredoxin [*Cutibacterium acnes* HL043PA2]
 | 1. 16,0921
 | 1. 23,45
 | 1. 145
 |
| 1. 327446772
 | 1. OsmC-like protein [*Cutibacterium acnes* HL043PA2]
 | 1. 15,3427
 | 1. 31,03
 | 1. 145
 |
| 1. 327444580
 | 1. ribosomal protein S7 [*Cutibacterium acnes* HL043PA2]
 | 1. 16,2586
 | 1. 29,17
 | 1. 144
 |
| 1. 327444180
 | 1. ribosome-binding factor A [*Cutibacterium acnes* HL043PA2]
 | 1. 15,592
 | 1. 36,36
 | 1. 143
 |
| 1. 327446959
 | 1. ribosomal protein L11 [*Cutibacterium acnes* HL043PA2]
 | 1. 15,125
 | 1. 16,78
 | 1. 143
 |
| 1. 327445159
 | 1. peroxiredoxin, Ohr subfamily [*Cutibacterium acnes* HL043PA2]
 | 1. 14,7333
 | 1. 28,17
 | 1. 142
 |
| 1. 327449945
 | 1. TOBE domain protein [*Cutibacterium acnes* HL043PA2]
 | 1. 15,3212
 | 1. 20,42
 | 1. 142
 |
| 1. 327446137
 | 1. nucleoside diphosphate kinase [*Cutibacterium acnes* HL043PA2]
 | 1. 15,3429
 | 1. 19,57
 | 1. 138
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| 1. 327446542
 | 1. hypothetical protein HMPREF9571\_01107 [*Cutibacterium acnes* HL043PA2]
 | 1. 15,2666
 | 1. 18,98
 | 1. 137
 |
| 1. 327446043
 | 1. DoxX family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 13,7245
 | 1. 19,55
 | 1. 133
 |
| 1. 327446962
 | 1. ribosomal protein L7/L12 [*Cutibacterium acnes* HL043PA2]
 | 1. 13,6932
 | 1. 28,46
 | 1. 130
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| 1. 327446536
 | 1. single-strand binding family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 14,1052
 | 1. 17,97
 | 1. 128
 |
| 1. 327449416
 | 1. ribosomal protein L18 [*Cutibacterium acnes* HL043PA2]
 | 1. 13,6924
 | 1. 19,69
 | 1. 127
 |
| 1. 327446705
 | 1. RbsD/FucU transport family protein [*Cutibacterium acnes* HL043PA2]
 | 1. 13,8192
 | 1. 18,9
 | 1. 127
 |
| 1. 327449431
 | 1. 30S ribosomal protein S13 [*Cutibacterium acnes* HL043PA2]
 | 1. 13,9878
 | 1. 25,2
 | 1. 123
 |
| 1. 327444367
 | 1. ribosomal protein L20 [*Cutibacterium acnes* HL043PA2]
 | 1. 13,9514
 | 1. 21,14
 | 1. 123
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| 1. 327446218
 | 1. glycine cleavage system H protein [*Cutibacterium acnes* HL043PA2]
 | 1. 12,9532
 | 1. 16,26
 | 1. 123
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| 1. 327449410
 | 1. ribosomal protein L14 [*Cutibacterium acnes* HL043PA2]
 | 1. 13,4704
 | 1. 24,59
 | 1. 122
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| 1. 327449411
 | 1. ribosomal protein L24 [*Cutibacterium acnes* HL043PA2]
 | 1. 13,4724
 | 1. 18,03
 | 1. 122
 |
| 1. 327448389
 | 1. methylmalonyl-CoA carboxyltransferase 1.3S subunit [*Cutibacterium acnes* HL043PA2]
 | 1. 11,6191
 | 1. 21,67
 | 1. 120
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| 1. 327447699
 | 1. hypothetical protein HMPREF9571\_00982 [*Cutibacterium acnes* HL043PA2]
 | 1. 13,3495
 | 1. 27,73
 | 1. 119
 |
| 1. 327444351
 | 1. ribosomal protein L19 [*Cutibacterium acnes* HL043PA2]
 | 1. 13,0711
 | 1. 28,21
 | 1. 117
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| 1. 327445025
 | 1. iron-sulfur cluster assembly accessory protein [*Cutibacterium acnes* HL043PA2]
 | 1. 12,4641
 | 1. 13,68
 | 1. 117
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| 1. 327445718
 | 1. hypothetical protein HMPREF9571\_01453 [*Cutibacterium acnes* HL043PA2]
 | 1. 12,7241
 | 1. 18,18
 | 1. 110
 |
| 1. 327450282
 | 1. hypothetical protein HMPREF9571\_00263 [*Cutibacterium acnes* HL043PA2]
 | 1. 11,7749
 | 1. 20
 | 1. 105
 |
| 1. 327450413
 | 1. hypothetical protein HMPREF9571\_00135 [*Cutibacterium acnes* HL043PA2]
 | 1. 11,2758
 | 1. 23,81
 | 1. 105
 |
| 1. 327449399
 | 1. ribosomal protein S10 [*Cutibacterium acnes* HL043PA2]
 | 1. 11,6723
 | 1. 26,21
 | 1. 103
 |
| 1. 327451377
 | 1. Ribbon-helix-helix protein, CopG family [*Cutibacterium acnes* HL043PA2]
 | 1. 10,9405
 | 1. 31,07
 | 1. 103
 |
| 1. 327449402
 | 1. ribosomal protein L23 [*Cutibacterium acnes* HL043PA2]
 | 1. 11,3232
 | 1. 39,22
 | 1. 102
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| 1. 327445904
 | 1. hypothetical protein HMPREF9571\_01644 [*Cutibacterium acnes* HL043PA2]
 | 1. 11,0151
 | 1. 15,31
 | 1. 98
 |
| 1. 327449489
 | 1. chaperonin GroS [*Cutibacterium acnes* HL043PA2]
 | 1. 10,6216
 | 1. 43,88
 | 1. 98
 |
| 1. 327449104
 | 1. ribosomal protein S6 [*Cutibacterium acnes* HL043PA2]
 | 1. 11,2459
 | 1. 19,79
 | 1. 96
 |
| 1. 327449404
 | 1. ribosomal protein S19 [*Cutibacterium acnes* HL043PA2]
 | 1. 10,5036
 | 1. 50,54
 | 1. 93
 |
| 1. 327446843
 | 1. hypothetical protein HMPREF9571\_01097 [*Cutibacterium acnes* HL043PA2]
 | 1. 10,24
 | 1. 20,65
 | 1. 92
 |
| 1. 327449219
 | 1. DNA-binding protein HB1 [*Cutibacterium acnes* HL043PA2]
 | 1. 9,5822
 | 1. 28,57
 | 1. 91
 |
| 1. 327449409
 | 1. 30S ribosomal protein S17 [*Cutibacterium acnes* HL043PA2]
 | 1. 10,4456
 | 1. 22,22
 | 1. 90
 |
| 1. 327446132
 | 1. ribosomal protein L27 [*Cutibacterium acnes* HL043PA2]
 | 1. 9,51694
 | 1. 52,81
 | 1. 89
 |
| 1. 327446066
 | 1. ribosomal protein S20 [*Cutibacterium acnes* HL043PA2]
 | 1. 9,69442
 | 1. 14,77
 | 1. 88
 |
| 1. 327449771
 | 1. phosphocarrier, HPr family [*Cutibacterium acnes* HL043PA2]
 | 1. 9,00556
 | 1. 26,14
 | 1. 88
 |
| 1. 327444162
 | 1. ribosomal protein S15 [*Cutibacterium acnes* HL043PA2]
 | 1. 10,0734
 | 1. 18,39
 | 1. 87
 |
| 1. 327445978
 | 1. acyl carrier protein [*Cutibacterium acnes* HL043PA2]
 | 1. 9,0223
 | 1. 30,86
 | 1. 81
 |
| 1. 327448390
 | 1. hypothetical protein HMPREF9571\_00873 [*Cutibacterium acnes* HL043PA2]
 | 1. 8,78664
 | 1. 22,5
 | 1. 80
 |
| 1. 327449106
 | 1. ribosomal protein S18 [*Cutibacterium acnes* HL043PA2]
 | 1. 8,79208
 | 1. 27,85
 | 1. 79
 |
| 1. 327449408
 | 1. ribosomal protein L29 [*Cutibacterium acnes* HL043PA2]
 | 1. 8,87972
 | 1. 45,45
 | 1. 77
 |
| 1. 327450491
 | 1. hypothetical protein HMPREF9571\_00120, partial [*Cutibacterium acnes* HL043PA2]
 | 1. 8,48723
 | 1. 46,75
 | 1. 77
 |
| 1. 327444368
 | 1. ribosomal protein L35 [*Cutibacterium acnes* HL043PA2]
 | 1. 7,88941
 | 1. 13,89
 | 1. 72
 |
| 1. 327444383
 | 1. CsbD-like protein [*Cutibacterium acnes* HL043PA2]
 | 1. 7,30578
 | 1. 28,17
 | 1. 71
 |
| 1. 327445685
 | 1. ribosomal protein L31 [*Cutibacterium acnes* HL043PA2]
 | 1. 7,71278
 | 1. 43,48
 | 1. 69
 |
| 1. 327445941
 | 1. hypothetical protein HMPREF9571\_01681 [*Cutibacterium acnes* HL043PA2]
 | 1. 7,16049
 | 1. 84,85
 | 1. 66
 |