## SUPPLEMENTARY FILE

2 1. Supplementary tables

- 3 2. Supplementary figures legends
- 4 1. Suppplementary tables
- **Table S1** Oligonucleotide sequences used in pyrosequencing.

PCR primers				
Primer	Sequences (5'-3')	Annealing temperature (°C)		
TRDP-FW	AGAAGGTATTGTTGGTGTTATAGG	55		
TRDP-RW-biotin	CCTCATTTTTTTACTCTCCCTTACT	33		
C16ORF89-FW	GGGTGGTTTGGGTAAAGGA	56		
C16ORF89-RW-	ACAACCCTCTCCCCAACA			
biotin				
ATAT1-FW	GGGTGTGTAGGGATTGTGTAT	56		
ATAT1-RW-	AAACATACCACAAAAAAAAAACTCTCTA			
biotin				
MSN-FW	TTGTTTAGAGAAGGAAAAGATAGGTAGTGA	59		
MSN-RW-biotin	CTCCTCTCCCACCCTAATCACAA			
Sequencing	Sequences (5'-3')			
primers				
TRDP	GGTTGGTTTTTGGATTATAA	-		
C16ORF89	AAGGGTGGTTGTAGG	-		
ATAT1	GTGAAGTTTTTGGAGTAAT	-		
MSN	GAGTGGGGTGGGGT	-		

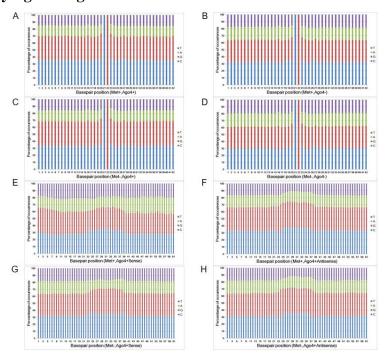
## Table S2 Oligonucleotide sequences and conditions for PCR and qPCR analyses.

Primer	Sequences (5'-3')	Annealing		
		temperature		
		(°C)		
LINE-1 met FW	GTTAAAGAAAGGGGTGAYGGT	55		
LINE-1 met RW	AATACRCCRTTTCTTAAACCRATCTA			
Alu met FW	GGYGYGGTGGTTTAYGTTTGTAA	57		
Alu met RW	CTAACTTTTATATTTTTAATAAAAACRAAAT			
	TTCACCA			
AGO4-FW	CAGGAATTCAGGGAACCAGCCG	56		
AGO4-RW	CTGCCTTCCGCACTGTCATGATC			
GAPDH-FW	TGGAAGGACTCATGACCACAG	56°C – 60		
GAPDH-RW	TTCAGCTCAGGGATGACCTT			
Copy LINE-1 FW	CTCCCAGCGTGAGCG	56		
Copy LINE-1 RW	ACTCCCTAGTGAGATGAACCCG			
Copy Alu FW	GGCTCACGCCTGTAATCCCAGC	69		
Copy Alu RW	GACGGGGTTTCACCATGTTGGCC			

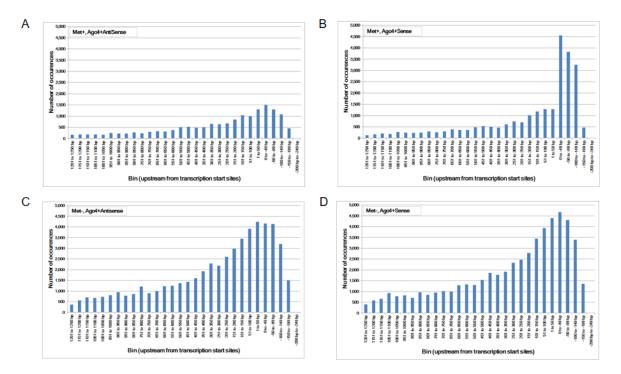
**Table S3** Contingency tables, odds ratios (ORs), 95% confidence intervals, and *p*-values. Each 2x2 table shows the association between methylation levels and protein binding sites. (**A**) Only ChIP DNAs that are perfectly matched with the human genome are included. (**B**) Only ChIP DNAs that are approximately matched with the human genome are included. This also includes perfectly matched DNAs.

Perfec	t match																
Binding Length	Protein	а	b	С	d	OR	95 %CI	p-value	Binding Length	Protein	а	b	С	d	OR	95 %CI	p-value
cengui	AGO1	5,562	560	15,866	1,978	1.24	1.12 - 1.37	2.13E-05	21	AGO1	923	91	20,505	2,447	1.21	0.97 - 1.51	8.75E-02
	AGO2	2,496	176	18,932	2,362	1.77	1.51 - 2.07	9.73E-13		AGO2	307	27	21,121	2,511	1.35	0.91 - 2.01	1.34E-01
15	AGO3	7,603	762	13,825	1,776	1.28	1.17 - 1.40	4.91E-08		AGO3	1,141	112	20,287	2,426	1.22	1.00 - 1.49	5.10E-02
	AGO4	6,476	497	14,952	2,041	1.78	1.61 - 1.97	6.48E-29		AGO4	719	56	20,709	2,482	1.54	1.17 - 2.03	1.97E-03
	PUMILIO2	2,800	542	18,628	1,996	0.55	0.50 - 0.61	4.30E-30		PUMILIO2	407	49	21,021	2,489	0.98	0.73 - 1.33	9.13E-01
	AGO1 AGO2	3,038 1,227	306 105	18,390 20,201	2,232	1.20	1.06 - 1.37 1.15 - 1.73	3.55E-03 9.53E-04	22	AGO1 AGO2	790 260	80 25	20,638	2,458	1.18	0.93 - 1.49 0.82 - 1.87	1.73E-01 3.16E-01
16	AGO3	4,057	393	17,371	2,145	1.27	1.14 - 1.43	2.39E-05		AGO3	925	88	20,503	2,450	1.26	1.01 - 1.57	4.43E-02
	AGO4	3,314	242	18,114	2,296	1.74	1.51 - 1.99	1.90E-15		AGO4	540	43	20,888	2,495	1.50	1.10 - 2.05	1.07E-02
	PUMILIO2	1,579	314	19,849	2,224	0.56	0.50 - 0.64	9.90E-19		PUMILIO2	383	46	21,045	2,492	0.99	0.72 - 1.34	9.28E-01
17	AGO1	1,929	199	19,499	2,339	1.16	1.00 - 1.35	5.18E-02	23	AGO1	655	66	20,773	2,472	1.18	0.91 - 1.53	2.03E-01
	AGO2	678	55	20,750	2,483	1.48	1.12 - 1.95	5.81E-03		AGO2	232	23	21,196	2,515	1.20	0.78 - 1.84	4.13E-01
	AGO3	2,578	232	18,850	2,306	1.36	1.18 - 1.57	1.88E-05		AGO3	706	71	20,722	2,467	1.18	0.92 - 1.52	1.81E-01
	AGO4 PUMILIO2	1,934 960	147	19,494	2,391	1.61 0.67	1.36 - 1.92 0.57 - 0.79	4.49E-08 3.51E-06		AGO4 PUMILIO2	443 346	34 43	20,985	2,504	1.55 0.95	1.09 - 2.21 0.69 - 1.31	1.31E-02 7.64E-01
	AG01	1,462	166 147	20,468 19,966	2,372	1.19	1.00 - 1.42	4.97E-02		AG01	557	58	21,082	2,495	1.14	0.87 - 1.50	3.44E-01
	AGO2	483	35	20,945	2,503	1.65	1.17 - 2.33	4.15E-03		AGO2	210	21	21,218	2,517	1.19	0.76 - 1.86	4.57E-01
18	AGO3	1,927	172	19,501	2,366	1.36	1.16 - 1.60	1.88E-04	24	AGO3	560	53	20,868	2,485	1.26	0.95 - 1.67	1.13E-01
	AGO4	1,352	108	20,076	2,430	1.52	1.24 - 1.85	4.29E-05		AGO4	367	29	21,061	2,509	1.51	1.03 - 2.21	3.31E-02
	PUMILIO2	686	96	20,742	2,442	0.84	0.68 - 1.05	1.19E-01		PUMILIO2	317	39	21,111	2,499	0.96	0.69 - 1.35	8.22E-01
	AGO1	1,213	121	20,215	2,417	1.20	0.99 - 1.45	6.34E-02		AGO1	464	36	20,964	2,502	1.54	1.09 - 2.16	1.28E-02
	AGO2	398	30	21,030	2,508	1.58	1.09 - 2.30	1.51E-02		AGO2	189	20	21,239	2,518	1.12	0.71 - 1.78	6.30E-01
19	AGO3	1,614	147	19,814	2,391	1.32	1.11 - 1.58	1.49E-03	25	AGO3	440	44	20,988	2,494	1.19	0.87 - 1.62	2.79E-01
	AGO4 PUMILIO2	1,049 523	83	20,379	2,455 2,468	1.52 0.88	1.21 - 1.91 0.68 - 1.14	2.63E-04		AG04	305 299	26 35	21,123	2,512	1.40	0.93 - 2.09 0.71 - 1.44	1.03E-01
	AG01	1,037	70 101	20,391	2,408	1.23	1.00 - 1.51	3.30E-01 5.41E-02		PUMILIO2	255	33	21,129	2,503	1.01	0.71 - 1.44	9.47E-01
	AGO2	350	27	21,078	2,511	1.54	1.04 - 2.29	2.92E-02									
20	AGO3	1,372	129	20,056	2,409	1.28	1.06 - 1.54	9.45E-03									
	AGO4	869	67	20,559	2,471	1.56	1.21 - 2.01	5.00E-04									
	PUMILIO2	439	61	20,989	2,477	0.85	0.65 - 1.11	2.37E-01									
				,	-,												
Approx	kimate n	natch		,													
Binding						OR	95 %CI		Binding	Protein	а	b	c	d	OR	95 %CI	p-value
	Protein	a	b	с	d	OR	95 %CI	p-value	Binding Length	Protein	a	b	С	d	OR	95 %CI	
Binding	Protein AGO1	a 17,795	b 1,703	c 3,633	d 835	2.40	2.19 - 2.63	<i>p</i> -value 1.02E-84	_	AGO1	3,940	432	17,488	2,106	1.10	0.98 - 1.22	9.20E-02
Binding Length	Protein AGO1 AGO2	a 17,795 12,918	b 1,703 863	c 3,633 8,510	d 835 1,675	2.40 2.95	2.19 - 2.63 2.70 - 3.21	<i>p</i> -value 1.02E-84 1.62E-141	Length	AG01 AG02	3,940 894	432 99	17,488 20,534	2,106 2,439	1.10	0.98 - 1.22 0.87 - 1.33	9.20E-02 5.17E-01
Binding	Protein AG01 AG02 AG03	a 17,795 12,918 20,003	b 1,703 863 2,072	c 3,633 8,510 1,425	d 835 1,675 466	2.40 2.95 3.16	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54	<i>p</i> -value 1.02E-84 1.62E-141 4.01E-95	_	AG01 AG02 AG03	3,940 894 5,155	432 99 520	17,488 20,534 16,273	2,106 2,439 2,018	1.10 1.07 1.23	0.98 - 1.22 0.87 - 1.33 1.11 - 1.36	9.20E-02 5.17E-01 6.36E-05
Binding Length	Protein AGO1 AGO2	a 17,795 12,918 20,003 19,180	b 1,703 863 2,072 1,715	c 3,633 8,510 1,425 2,248	d 835 1,675	2.40 2.95	2.19 - 2.63 2.70 - 3.21	<i>p</i> -value 1.02E-84 1.62E-141 4.01E-95	Length	AG01 AG02	3,940 894 5,155 1,804	432 99	17,488 20,534 16,273 19,624	2,106 2,439 2,018 2,380	1.10	0.98 - 1.22 0.87 - 1.33	9.20E-02 5.17E-01 6.36E-05 1.38E-04
Binding Length	Protein AG01 AG02 AG03 AG04	a 17,795 12,918 20,003	b 1,703 863 2,072	c 3,633 8,510 1,425	d 835 1,675 466 823	2.40 2.95 3.16 4.09	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50	<i>p</i> -value 1.02E-84 1.62E-141 4.01E-95 1.48E-214	Length	AGO1 AGO2 AGO3 AGO4	3,940 894 5,155	432 99 520 158	17,488 20,534 16,273	2,106 2,439 2,018	1.10 1.07 1.23 1.38	0.98 - 1.22 0.87 - 1.33 1.11 - 1.36 1.17 - 1.64	9.20E-02 5.17E-01 6.36E-05
Binding Length	Protein  AG01  AG02  AG03  AG04  PUMILI02	a 17,795 12,918 20,003 19,180 14,456	b 1,703 863 2,072 1,715 1,580	c 3,633 8,510 1,425 2,248 6,972	d 835 1,675 466 823 958	2.40 2.95 3.16 4.09 1.26	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37	<i>p</i> -value 1.02E-84 1.62E-141 4.01E-95 1.48E-214 1.34E-07	Length	AGO1 AGO2 AGO3 AGO4 PUMILIO2	3,940 894 5,155 1,804 1,425	432 99 520 158 265	17,488 20,534 16,273 19,624 20,003	2,106 2,439 2,018 2,380 2,273	1.10 1.07 1.23 1.38 0.61	0.98 - 1.22 0.87 - 1.33 1.11 - 1.36 1.17 - 1.64 0.53 - 0.70	9.20E-02 5.17E-01 6.36E-05 1.38E-04 1.74E-12
Binding Length	Protein  AG01  AG02  AG03  AG04  PUMILI02  AG01	a 17,795 12,918 20,003 19,180 14,456 16,118	b 1,703 863 2,072 1,715 1,580 1,496	c 3,633 8,510 1,425 2,248 6,972 5,310 11,071 2,403	d 835 1,675 466 823 958 1,042	2.40 2.95 3.16 4.09 1.26 2.11	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37 1.94 - 2.30	<i>p</i> -value 1.02E-84 1.62E-141 4.01E-95 1.48E-214 1.34E-07 4.47E-69	Length	AG01 AG02 AG03 AG04 PUMILIO2 AG01	3,940 894 5,155 1,804 1,425 3,338	432 99 520 158 265 381	17,488 20,534 16,273 19,624 20,003 18,090	2,106 2,439 2,018 2,380 2,273 2,157	1.10 1.07 1.23 1.38 0.61 1.04	0.98 - 1.22 0.87 - 1.33 1.11 - 1.36 1.17 - 1.64 0.53 - 0.70 0.93 - 1.17	9.20E-02 5.17E-01 6.36E-05 1.38E-04 1.74E-12 4.57E-01
Binding Length	Protein  AG01  AG02  AG03  AG04  PUMILI02  AG01  AG02  AG03  AG04	a 17,795 12,918 20,003 19,180 14,456 16,118 10,357 19,025 17,729	b 1,703 863 2,072 1,715 1,580 1,496 685 1,920 1,458	c 3,633 8,510 1,425 2,248 6,972 5,310 11,071 2,403 3,699	d 835 1,675 466 823 958 1,042 1,853 618 1,080	2.40 2.95 3.16 4.09 1.26 2.11 2.53 2.55 3.55	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37 1.94 - 2.30 2.31 - 2.77 2.31 - 2.82 3.26 - 3.87	<i>p</i> -value 1.02E-84 1.62E-141 4.01E-95 1.48E-214 1.34E-07 4.47E-69 1.73E-92 2.80E-79 9.94E-200	Length 21	AG01 AG02 AG03 AG04 PUMILIO2 AG01 AG02 AG03 AG04	3,940 894 5,155 1,804 1,425 3,338 717 4,060 1,252	432 99 520 158 265 381 85 418	17,488 20,534 16,273 19,624 20,003 18,090 20,711 17,368 20,176	2,106 2,439 2,018 2,380 2,273 2,157 2,453 2,120 2,417	1.10 1.07 1.23 1.38 0.61 1.04 1.00 1.19	0.98 - 1.22 0.87 - 1.33 1.11 - 1.36 1.17 - 1.64 0.53 - 0.70 0.93 - 1.17 0.79 - 1.26 1.06 - 1.32 1.02 - 1.50	9.20E-02 5.17E-01 6.36E-05 1.38E-04 1.74E-12 4.57E-01 9.94E-01 2.46E-03 2.75E-02
Binding Length	Protein  AGO1  AGO2  AGO3  AGO4  PUMILIO2  AGO1  AGO2  AGO3  AGO4  PUMILIO2	a 17,795 12,918 20,003 19,180 14,456 16,118 10,357 19,025 17,729 12,752	b 1,703 863 2,072 1,715 1,580 1,496 685 1,920 1,458 1,430	c 3,633 8,510 1,425 2,248 6,972 5,310 11,071 2,403 3,699 8,676	d 835 1,675 466 823 958 1,042 1,853 618 1,080 1,108	2.40 2.95 3.16 4.09 1.26 2.11 2.53 2.55 3.55 1.14	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37 1.94 - 2.30 2.31 - 2.77 2.31 - 2.82 3.26 - 3.87 1.05 - 1.24	<i>p</i> -value 1.02E-84 1.62E-141 4.01E-95 1.48E-214 1.34E-07 4.47E-69 1.73E-92 2.80E-79 9.94E-200 2.14E-03	Length 21	AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO1 AGO2 AGO3 AGO4 PUMILIO2	3,940 894 5,155 1,804 1,425 3,338 717 4,060 1,252 1,125	432 99 520 158 265 381 85 418 121 215	17,488 20,534 16,273 19,624 20,003 18,090 20,711 17,368 20,176 20,303	2,106 2,439 2,018 2,380 2,273 2,157 2,453 2,120 2,417 2,323	1.10 1.07 1.23 1.38 0.61 1.04 1.00 1.19 1.24 0.60	0.98 - 1.22 0.87 - 1.33 1.11 - 1.36 1.17 - 1.64 0.53 - 0.70 0.93 - 1.17 0.79 - 1.26 1.06 - 1.32 1.02 - 1.50 0.51 - 0.70	9.20E-02 5.17E-01 6.36E-05 1.38E-04 1.74E-12 4.57E-01 9.94E-01 2.46E-03 2.75E-02 2.41E-11
Binding Length	Protein  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG04  PUMILIO2  AG01  AG04	a 17,795 12,918 20,003 19,180 14,456 16,118 10,357 19,025 17,729 12,752 13,188	b 1,703 863 2,072 1,715 1,580 1,496 685 1,920 1,458 1,430 1,247	c 3,633 8,510 1,425 2,248 6,972 5,310 11,071 2,403 3,699 8,676 8,240	d 835 1,675 466 823 958 1,042 1,853 618 1,080 1,108 1,291	2.40 2.95 3.16 4.09 1.26 2.11 2.53 2.55 3.55 1.14	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37 1.94 - 2.30 2.31 - 2.77 2.31 - 2.82 3.26 - 3.87 1.05 - 1.24 1.53 - 1.80	<i>p</i> -value 1.02E-84 1.62E-141 4.01E-95 1.48E-214 1.34E-07 4.47E-69 1.73E-92 2.80E-79 9.94E-200 2.14E-03 1.33E-33	Length 21	AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO1 AGO4	3,940 894 5,155 1,804 1,425 3,338 717 4,060 1,252 1,125 2,825	432 99 520 158 265 381 85 418 121 215 340	17,488 20,534 16,273 19,624 20,003 18,090 20,711 17,368 20,176 20,303 18,603	2,106 2,439 2,018 2,380 2,273 2,157 2,453 2,120 2,417 2,323 2,198	1.10 1.07 1.23 1.38 0.61 1.04 1.00 1.19 1.24 0.60 0.98	0.98 - 1.22 0.87 - 1.33 1.11 - 1.36 1.17 - 1.64 0.53 - 0.70 0.93 - 1.17 0.79 - 1.26 1.06 - 1.32 1.02 - 1.50 0.51 - 0.70 0.87 - 1.11	9.20E-02 5.17E-01 6.36E-05 1.38E-04 1.74E-12 4.57E-01 9.94E-01 2.46E-03 2.75E-02 2.41E-11 7.65E-01
Binding Length 15	Protein  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG04  PUMILIO2  AG01  AG01  AG01  AG01  AG01	a 17,795 12,918 20,003 19,180 14,456 16,118 10,357 19,025 17,729 12,752 13,188 6,763	b 1,703 863 2,072 1,715 1,580 1,496 685 1,920 1,458 1,430 1,247 462	c 3,633 8,510 1,425 2,248 6,972 5,310 11,071 2,403 3,699 8,676 8,240 14,665	d 835 1,675 466 823 958 1,042 1,853 618 1,080 1,108 1,291 2,076	2.40 2.95 3.16 4.09 1.26 2.11 2.53 2.55 3.55 1.14 1.66 2.07	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37 1.94 - 2.30 2.31 - 2.77 2.31 - 2.82 3.26 - 3.87 1.05 - 1.24 1.53 - 1.80 1.87 - 2.30	<i>p</i> -value 1.02E-84 1.62E-141 4.01E-95 1.48E-214 1.34E-07 4.47E-69 1.73E-92 2.80E-79 9.94E-200 2.14E-03 1.33E-33 1.01E-43	Length 21 22	AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO1 AGO4	3,940 894 5,155 1,804 1,425 3,338 717 4,060 1,252 1,125 2,825 589	432 99 520 158 265 381 85 418 121 215 340 76	17,488 20,534 16,273 19,624 20,003 18,090 20,711 17,368 20,176 20,303 18,603 20,839	2,106 2,439 2,018 2,380 2,273 2,157 2,453 2,120 2,417 2,323 2,198 2,462	1.10 1.07 1.23 1.38 0.61 1.04 1.00 1.19 1.24 0.60 0.98 0.92	0.98 - 1.22 0.87 - 1.33 1.11 - 1.36 1.17 - 1.64 0.53 - 0.70 0.93 - 1.17 0.79 - 1.26 1.06 - 1.32 1.02 - 1.50 0.51 - 0.70 0.87 - 1.11 0.72 - 1.17	9.20E-02 5.17E-01 6.36E-05 1.38E-04 1.74E-12 4.57E-01 9.94E-01 2.46E-03 2.75E-02 2.41E-11 7.65E-01 4.76E-01
Binding Length	Protein  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG01  AG01  AG01  AG01  AG01	a 17,795 12,918 20,003 19,180 14,456 16,118 10,357 19,025 17,729 12,752 13,188 6,763 16,885	b 1,703 863 2,072 1,715 1,580 1,496 685 1,920 1,458 1,430 1,247 462 1,663	c 3,633 8,510 1,425 2,248 6,972 5,310 11,071 2,403 3,699 8,676 8,240 14,665 4,543	d 835 1,675 466 823 958 1,042 1,853 618 1,080 1,108 1,291 2,076 875	2.40 2.95 3.16 4.09 1.26 2.11 2.53 2.55 3.55 1.14 1.66 2.07 1.96	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37 1.94 - 2.30 2.31 - 2.77 2.31 - 2.82 3.26 - 3.87 1.05 - 1.24 1.53 - 1.80 1.87 - 2.30 1.79 - 2.14	<i>p</i> -value 1.02E-84 1.62E-141 4.01E-95 1.48E-214 1.34E-07 4.47E-69 1.73E-92 2.80E-79 9.94E-200 2.14E-03 1.33E-33 1.01E-43 1.23E-51	Length 21	AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO1 AGO2 AGO3 AGO4	3,940 894 5,155 1,804 1,425 3,338 717 4,060 1,252 1,125 2,825 589 3,166	432 99 520 158 265 381 85 418 121 215 340	17,488 20,534 16,273 19,624 20,003 18,090 20,711 17,368 20,176 20,303 18,603 20,839 18,262	2,106 2,439 2,018 2,273 2,157 2,453 2,120 2,417 2,323 2,198 2,462 2,191	1.10 1.07 1.23 1.38 0.61 1.04 1.00 1.19 1.24 0.60 0.98 0.92 1.09	0.98 - 1.22 0.87 - 1.33 1.11 - 1.36 1.17 - 1.64 0.53 - 0.70 0.93 - 1.17 0.79 - 1.26 1.06 - 1.32 1.02 - 1.50 0.51 - 0.70 0.87 - 1.11 0.72 - 1.17 0.97 - 1.23	9.20E-02 5.17E-01 6.36E-05 1.38E-04 1.74E-12 4.57E-01 9.94E-01 2.46E-03 2.75E-02 2.41E-11 7.65E-01 4.76E-01 1.37E-01
Binding Length 15	Protein  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG04  PUMILIO2  AG01  AG01  AG01  AG01  AG01	a 17,795 12,918 20,003 19,180 14,456 16,118 10,357 19,025 17,729 12,752 13,188 6,763	b 1,703 863 2,072 1,715 1,580 1,496 685 1,920 1,458 1,430 1,247 462 1,663 1,074	c 3,633 8,510 1,425 2,248 6,972 5,310 11,071 2,403 3,699 8,676 8,240 14,665	d 835 1,675 466 823 958 1,042 1,853 618 1,080 1,108 1,291 2,076 875 1,464	2.40 2.95 3.16 4.09 1.26 2.11 2.53 2.55 3.55 1.14 1.66 2.07	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37 1.94 - 2.30 2.31 - 2.77 2.31 - 2.82 3.26 - 3.87 1.05 - 1.24 1.53 - 1.80 1.87 - 2.30	<i>p</i> -value 1.02E-84 1.62E-141 4.01E-95 1.48E-214 1.34E-07 4.47E-69 1.73E-92 2.80E-79 9.94E-200 1.33E-33 1.01E-43 1.23E-51 3.28E-133	Length 21 22	AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO1 AGO4	3,940 894 5,155 1,804 1,425 3,338 717 4,060 1,252 1,125 2,825 589	432 99 520 158 265 381 85 418 121 215 340 76	17,488 20,534 16,273 19,624 20,003 18,090 20,711 17,368 20,176 20,303 18,603 20,839	2,106 2,439 2,018 2,273 2,157 2,453 2,120 2,417 2,323 2,198 2,462 2,191 2,442	1.10 1.07 1.23 1.38 0.61 1.04 1.00 1.19 1.24 0.60 0.98 0.92	0.98 - 1.22 0.87 - 1.33 1.11 - 1.36 1.17 - 1.64 0.53 - 0.70 0.93 - 1.17 0.79 - 1.26 1.06 - 1.32 1.02 - 1.50 0.51 - 0.70 0.87 - 1.11 0.72 - 1.17	9.20E-02 5.17E-01 6.36E-05 1.38E-04 1.74E-12 4.57E-01 9.94E-01 2.46E-03 2.75E-02 2.41E-11 7.65E-01 4.76E-01 9.11E-02
Binding Length 15	Protein  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG03  AG04  PUMILIO2  AG01  AG01  AG02  AG03  AG04	a 17,795 12,918 20,003 19,180 14,456 16,118 10,357 19,025 17,729 12,752 13,188 6,763 16,885 14,358	b 1,703 863 2,072 1,715 1,580 1,496 685 1,920 1,458 1,430 1,247 462 1,663 1,074	c 3,633 8,510 1,425 2,248 6,972 5,310 11,071 2,403 3,699 8,676 8,240 14,665 4,543 7,070	d 835 1,675 466 823 958 1,042 1,853 618 1,080 1,108 1,291 2,076 875 1,464 1,333	2.40 2.95 3.16 4.09 1.26 2.11 2.53 2.55 3.55 1.14 1.66 2.07 1.96	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37 1.94 - 2.30 2.31 - 2.77 2.31 - 2.82 3.26 - 3.87 1.05 - 1.24 1.53 - 1.80 1.87 - 2.30 1.79 - 2.14 2.55 - 3.01	<i>p</i> -value 1.02E-84 1.62E-141 4.01E-95 1.48E-214 1.34E-07 4.47E-69 1.73E-92 2.80E-79 9.94E-200 2.14E-03 1.33E-33 1.01E-43 1.23E-51 3.28E-133 4.36E-01	Length 21 22	AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO1 AGO2 AGO3 AGO4 AGO1 AGO2 AGO3 AGO4	3,940 894 5,155 1,804 1,425 3,338 717 4,060 1,252 1,125 2,825 589 3,166 967	432 99 520 158 265 381 85 418 121 215 340 76 347 96	17,488 20,534 16,273 19,624 20,003 18,090 20,711 17,368 20,176 20,303 18,603 20,839 18,262 20,461	2,106 2,439 2,018 2,273 2,157 2,453 2,120 2,417 2,323 2,198 2,462 2,191 2,442 2,351	1.10 1.07 1.23 1.38 0.61 1.04 1.00 1.19 1.24 0.60 0.98 0.92 1.09	0.98 - 1.22 0.87 - 1.33 1.11 - 1.64 0.53 - 0.70 0.93 - 1.17 0.79 - 1.26 1.06 - 1.32 1.02 - 1.50 0.51 - 0.70 0.87 - 1.11 0.72 - 1.17 0.97 - 1.23 0.97 - 1.49	9.20E-02 5.17E-01 6.36E-05 1.38E-04 1.74E-12 4.57E-01 9.94E-01 2.46E-03 2.75E-02 2.41E-11 7.65E-01 4.76E-01 9.11E-02 4.47E-10
Binding Length  15  16	Protein  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG02  AG01  AG01  AG02  AG03  AG04  PUMILIO2	a 17,795 12,918 20,003 19,180 14,456 16,118 10,357 19,025 17,729 12,752 13,188 6,763 16,885 14,358 9,999 9,490 3,650	b 1,703 863 2,072 1,715 1,580 1,496 685 1,920 1,458 1,430 1,247 462 1,663 1,074 1,205	c 3,633 8,510 1,425 2,248 6,972 5,310 11,071 2,403 3,699 8,676 14,665 4,543 7,070 11,429 11,938 17,778	835 1,675 466 823 958 1,042 1,853 618 1,080 1,108 1,291 2,207 6,875 1,464 1,333 1,606 2,259	2.40 2.95 3.16 4.09 1.26 2.11 2.53 2.55 3.55 1.14 1.66 2.07 1.96 2.77	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37 1.94 - 2.30 2.31 - 2.77 2.31 - 2.82 3.26 - 3.87 1.05 - 1.24 1.53 - 1.80 1.79 - 2.14 2.55 - 3.01 0.89 - 1.05 1.26 - 1.49 1.46 - 1.89	p-value 1.02E-84 1.62E-141 4.01E-95 1.48E-214 1.34E-07 4.47E-69 1.73E-92 2.80E-79 9.94E-200 2.14E-03 1.33E-33 1.01E-43 1.23E-51 3.28E-133 4.36E-01 3.59E-13 7.68E-15	21 22 23	AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO3 AGO4 PUMILIO2 AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO1 AGO2 AGO3	3,940 894 5,155 1,804 1,425 3,338 717 4,060 1,252 1,125 2,825 589 3,166 967 976 2,395 504	432 99 520 158 265 381 85 418 121 215 340 76 347 96 187	17,488 20,534 16,273 19,624 20,003 18,090 20,711 17,368 20,176 20,303 18,603 20,839 18,262 20,461 20,452 19,033 20,924	2,106 2,439 2,018 2,380 2,273 2,157 2,453 2,120 2,417 2,323 2,198 2,462 2,191 2,442 2,351 2,442 2,351 2,232 2,473	1.10 1.07 1.23 1.38 0.61 1.04 1.00 1.19 1.24 0.60 0.98 0.92 1.09 1.20	0.98 - 1.22 0.87 - 1.33 1.11 - 1.64 0.53 - 0.70 0.93 - 1.17 0.79 - 1.26 1.06 - 1.32 1.02 - 1.50 0.51 - 0.70 0.87 - 1.11 0.97 - 1.23 0.97 - 1.49 0.51 - 0.71 0.81 - 1.04 0.71 - 1.19	9.20E-02 5.17E-01 1.38E-04 1.74E-12 4.57E-01 9.94E-01 2.46E-03 2.75E-02 2.41E-11 7.65E-01 4.76E-01 9.11E-02 4.47E-10 1.85E-01 5.13E-01
Binding Length 15	Protein  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG01  AG02  AG01  AG02  AG01  AG02  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG02  AG03  AG04  PUMILIO2  AG03  AG04  PUMILIO2  AG03	a 17,795 12,918 20,003 19,180 14,456 16,118 10,357 19,025 17,729 12,752 13,188 6,763 16,885 14,358 9,999 9,490 3,650 13,149	b 1,703 863 2,072 1,715 1,580 1,496 685 1,920 1,458 1,430 1,247 1,663 1,074 1,205 932 279 1,267	c 3,633 8,510 1,425 2,248 6,972 5,310 11,071 2,403 3,699 8,676 8,240 14,665 4,543 7,070 11,429 11,938 17,778 8,279	835 1,675 466 823 958 1,042 1,853 618 1,080 1,108 1,291 2,076 1,464 1,333 1,606 2,259 1,271	2.40 2.95 3.16 4.09 1.26 2.11 2.53 3.55 1.14 1.66 2.07 1.96 2.77 0.97 1.37 1.66 1.59	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37 1.94 - 2.30 2.31 - 2.77 2.31 - 2.82 3.26 - 3.87 1.05 - 1.24 1.53 - 1.80 1.87 - 2.30 1.79 - 2.14 2.55 - 3.01 0.89 - 1.05 1.26 - 1.49 1.46 - 1.89 1.47 - 1.73	p-value 1.02E-84 1.62E-141 4.01E-95 1.48E-214 1.34E-07 4.47E-69 1.73E-92 2.80E-79 9.94E-200 2.14E-03 1.33E-33 1.01E-43 1.23E-51 3.28E-133 4.36E-01 3.59E-13 7.68E-15 8.63E-29	Length 21 22	AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO1 AGO2 AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO1 AGO2 AGO3 AGO4	3,940 894 5,155 1,804 1,425 3,338 717 4,060 1,252 1,125 2,825 589 3,166 967 976 2,395 504 2,462	432 99 520 158 265 381 85 418 121 215 340 76 347 96 187 306 65 272	17,488 20,534 16,273 19,624 20,003 18,090 20,711 17,368 20,176 20,303 18,603 20,839 18,262 20,461 20,452 19,033 20,924 18,966	2,106 2,439 2,018 2,380 2,273 2,157 2,453 2,120 2,417 2,323 2,198 2,462 2,191 2,442 2,351 2,442 2,351 2,232 2,473 2,266	1.10 1.07 1.23 1.38 0.61 1.04 1.09 1.24 0.60 0.98 0.92 1.09 1.20 0.60 0.92 0.92	0.98 - 1.22 0.87 - 1.33 1.11 - 1.64 0.53 - 0.70 0.93 - 1.17 0.79 - 1.26 1.06 - 1.32 1.02 - 1.50 0.51 - 0.70 0.87 - 1.11 0.72 - 1.17 0.97 - 1.23 0.97 - 1.49 0.51 - 0.71 0.81 - 1.04 0.71 - 1.19 0.95 - 1.23	9.20E-02 5.17E-01 1.38E-04 1.74E-12 4.57E-01 9.94E-01 2.46E-03 2.75E-02 2.41E-11 7.65E-01 4.76E-01 1.37E-01 9.11E-02 4.47E-10 1.85E-01 5.13E-01 2.47E-01
Binding Length  15  16	Protein  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG02  AG01  AG02  AG01  AG02  AG01  AG02  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG02  AG03  AG04  AG04  AG04  AG04  AG06  AG07  AG07  AG07  AG08  AG08  AG09	a 17,795 12,918 20,003 19,180 14,456 16,118 10,357 17,729 12,752 13,188 6,763 16,885 14,358 9,999 9,490 3,650 13,149 9,281	1,703 863 2,072 1,715 1,580 1,496 685 1,920 1,458 1,430 1,247 462 1,663 1,074 1,205 2,279 1,267 658	c 3,633 8,510 1,425 2,248 6,972 5,310 11,071 2,403 3,699 8,676 8,240 14,665 4,543 7,070 11,429 11,298 17,778 8,279 12,147	d 835 1,675 466 823 958 1,042 1,853 618 1,080 1,108 1,291 2,076 875 1,464 1,333 1,333 1,333 1,336 2,259 1,271 1,880	2.40 2.95 3.16 4.09 1.26 2.11 2.53 3.55 1.14 1.66 2.07 1.96 2.77 0.97 1.37 1.66 1.59 2.18	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37 1.94 - 2.30 2.31 - 2.77 2.31 - 2.82 3.26 - 3.87 1.05 - 1.24 1.53 - 1.80 1.87 - 2.30 1.79 - 2.14 0.89 - 1.05 1.26 - 1.49 1.46 - 1.89 1.47 - 1.73 1.99 - 2.40	p-value  1.02E-84 1.62E-141 4.01E-95 1.48E-214 1.34E-07 4.47E-69 1.73E-92 2.80E-79 9.94E-200 2.14E-03 1.33E-33 1.01E-43 1.23E-51 3.28E-133 4.36E-01 3.59E-13 7.68E-15 8.63E-29 2.03E-63	21 22 23	AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO1 AGO4 AGO3 AGO4 PUMILIO2 AGO1 AGO2 AGO3 AGO4	3,940 894 5,155 1,804 1,425 3,338 717 4,060 1,252 1,125 2,825 589 3,166 967 976 2,395 504 2,462 764	432 99 520 158 265 381 85 418 121 215 340 76 347 96 187 306 65 272 86	17,488 20,534 16,273 19,624 20,003 18,090 20,711 17,368 20,176 20,303 18,603 20,839 18,262 20,461 20,452 19,033 20,924 18,966 20,664	2,106 2,439 2,018 2,273 2,273 2,157 2,453 2,120 2,417 2,323 2,198 2,462 2,191 2,442 2,451 2,232 2,235 2,235 2,235 2,235 2,235 2,235 2,235 2,235 2,2473	1.10 1.07 1.23 1.38 0.61 1.04 1.00 0.98 0.92 1.09 1.20 0.60 0.92 0.92 1.08	0.98 - 1.22 0.87 - 1.33 1.11 - 1.64 0.53 - 0.70 0.93 - 1.17 0.79 - 1.26 1.06 - 1.32 1.02 - 1.50 0.51 - 0.70 0.87 - 1.11 0.77 - 1.23 0.97 - 1.23 0.97 - 1.49 0.51 - 0.71 0.81 - 1.04 0.71 - 1.19 0.95 - 1.23 0.84 - 1.32	9.20E-02 5.17E-01 6.36E-05 1.38E-04 1.74E-12 4.57E-01 9.94E-01 2.46E-03 2.75E-02 2.41E-11 7.65E-01 1.37E-01 9.11E-02 4.47E-10 1.85E-01 5.13E-01 2.47E-01 6.49E-01
Binding Length  15  16	Protein  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG01  AG02  AG01  AG02  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG04  PUMILIO2  AG01  AG04  PUMILIO2  AG01  AG04  PUMILIO2	a 17,795 12,918 20,003 19,180 14,456 16,118 10,357 19,025 17,729 12,752 13,188 6,763 14,358 9,999 9,490 3,650 13,149 9,281 6,505	1,703 863 2,072 1,715 1,580 1,496 685 1,430 1,247 462 1,663 1,074 1,074 1,267 2,279 1,267 658 920	c 3,633 8,510 1,425 2,248 6,972 5,310 11,071 2,403 3,699 8,676 8,240 14,665 4,543 7,070 11,429 11,938 17,778 8,279 12,147	835 1,675 466 823 958 1,042 1,853 618 1,080 1,108 1,291 2,076 875 1,464 1,333 1,606 1,271 1,880 1,271 1,880	2.40 2.95 3.16 4.09 1.26 2.11 2.53 3.55 1.14 1.66 2.07 1.96 2.77 1.97 1.37 1.66 1.59 2.18	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37 1.94 - 2.30 2.31 - 2.77 2.31 - 2.82 3.26 - 3.87 1.05 - 1.24 1.53 - 1.80 1.87 - 2.30 1.79 - 2.14 2.55 - 3.01 0.89 - 1.05 1.26 - 1.49 1.46 - 1.89 1.47 - 1.73 1.99 - 2.40 0.70 - 0.84	p-value 1.02E-84 1.62E-141 4.01E-95 1.48E-214 1.34E-07 4.47E-69 1.73E-92 2.80E-79 9.94E-200 2.14E-03 1.33E-33 1.01E-43 1.23E-51 3.28E-133 4.36E-13 7.68E-15 8.63E-29 2.03E-63 1.29E-09	21 22 23	AGO1 AGO2 AGO3 AGO4 PUMILIO2	3,940 894 5,155 1,804 1,425 3,338 717 4,060 1,252 1,125 2,825 589 3,166 967 976 2,395 504 2,462 764	432 99 520 158 265 381 85 418 121 215 340 76 347 96 187 306 65 272 86	17,488 20,534 16,273 19,624 20,003 18,090 20,711 17,368 20,176 20,303 18,603 20,839 18,262 20,461 20,452 19,033 20,924 18,966 20,664 20,552	2,106 2,439 2,018 2,273 2,273 2,157 2,453 2,120 2,417 2,323 2,198 2,462 2,191 2,442 2,351 2,232 2,232 2,232 2,232 2,232 2,232 2,232 2,232 2,232 2,232 2,232 2,232 2,232 2,236	1.10 1.07 1.23 1.38 0.61 1.04 1.00 1.19 1.24 0.60 0.98 0.92 1.09 0.90 0.90 0.90 1.20 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0	0.98 - 1.22 0.87 - 1.33 1.11 - 1.64 0.53 - 0.70 0.93 - 1.17 0.79 - 1.26 1.06 - 1.32 1.02 - 1.50 0.51 - 0.70 0.87 - 1.11 0.77 - 1.27 0.97 - 1.29 0.51 - 0.71 0.97 - 1.23 0.97 - 1.49 0.51 - 0.71 0.81 - 1.04 0.71 - 1.19 0.95 - 1.23 0.84 - 1.32 0.50 - 0.69	9.20E-02 5.17E-01 6.36E-05 1.38E-04 1.74E-12 4.57E-01 9.94E-01 2.46E-03 2.75E-02 2.41E-11 7.65E-01 1.37E-01 9.11E-02 4.47E-10 1.88E-01 5.13E-01 2.47E-01 6.49E-01 3.76E-10
Binding Length  15  16	Protein  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG01  AG01  AG01  AG01  AG01  AG02  AG03  AG04  PUMILIO2  AG01	a 17,795 12,918 20,003 19,180 14,456 16,118 10,357 19,025 17,729 12,752 13,188 6,763 16,885 14,358 9,999 9,490 13,149 9,281 6,505 6,693	1,703 863 2,072 1,715 1,580 1,496 685 1,920 1,458 1,430 1,247 462 1,663 1,074 1,205 932 279 1,267 658 920 666	c 3,633 8,510 1,425 2,248 6,972 5,310 11,071 2,403 3,699 8,676 8,240 14,665 4,543 7,070 11,429 11,938 17,778 8,279 12,147 14,923 14,735	835 1,675 466 823 958 1,042 1,853 618 1,080 1,108 1,291 2,076 875 1,464 1,333 1,606 1,259 1,271 1,880 1,618 1,872	2.40 2.95 3.16 4.09 1.26 2.11 2.53 2.55 3.55 1.14 1.66 2.07 1.96 1.37 1.66 1.59 2.18 0.77 1.28	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37 1.94 - 2.30 2.31 - 2.77 2.31 - 2.82 3.26 - 3.87 1.05 - 1.24 1.53 - 1.80 1.79 - 2.14 2.55 - 3.01 2.55 - 3.01 1.26 - 1.49 1.46 - 1.49 1.47 - 1.73 1.99 - 2.40 0.70 - 0.84 1.16 - 1.40	p-value  1.02E-84 1.62E-141 4.01E-95 1.48E-214 1.34E-07 4.47E-69 1.73E-92 2.80E-79 9.94E-200 2.14E-03 1.33E-33 1.01E-43 1.23E-51 3.28E-133 4.36E-01 3.59E-13 7.68E-15 8.63E-29 2.03E-63 1.29E-09 2.51E-07	21 22 23	AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO1 AGO2 AGO3 AGO4	3,940 894 5,155 1,804 1,425 3,338 717 4,060 1,252 1,125 2,825 589 3,166 967 976 2,395 504 2,462 764 876 2,034	432 99 520 158 265 381 85 418 121 215 340 76 347 96 65 272 86 172	17,488 20,534 16,273 19,624 20,003 18,090 20,711 17,368 20,176 20,303 18,603 20,839 18,262 20,451 20,452 19,033 20,924 18,966 20,664 20,552 19,394	2,106 2,439 2,018 2,380 2,157 2,453 2,120 2,417 2,323 2,198 2,462 2,191 2,442 2,351 2,266 2,452 2,366 2,269	1.10 1.07 1.23 1.38 0.61 1.04 1.00 1.19 1.24 0.60 0.98 0.92 1.09 1.20 0.60 0.92 1.20 0.92 0.92 0.92 0.92	0.98 - 1.22 0.87 - 1.33 1.11 - 1.36 1.17 - 1.64 0.53 - 0.70 0.93 - 1.17 0.79 - 1.26 1.06 - 1.32 1.02 - 1.50 0.51 - 0.70 0.87 - 1.11 0.72 - 1.17 0.97 - 1.23 0.97 - 1.49 0.51 - 0.71 0.81 - 1.04 0.71 - 1.19 0.95 - 1.23 0.84 - 1.32 0.50 - 0.69 0.77 - 1.01	9.20E-02 5.17E-01 6.36E-05 1.38E-04 1.74E-12 4.57E-01 9.94E-01 2.46E-03 2.75E-02 2.41E-11 7.65E-01 4.76E-01 1.37E-01 9.11E-02 4.47E-10 5.13E-01 2.47E-01 6.49E-01 3.76E-10 7.37E-02
Binding Length  15  16	Protein  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG01  AG01  AG01  AG02  AG01  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG01  AG02  AG03  AG04  PUMILIO2	a 17,795 12,918 20,003 19,180 14,456 16,118 10,357 19,025 17,729 12,752 13,188 6,763 14,358 9,999 9,490 3,650 13,149 9,281 6,505	1,703 863 2,072 1,715 1,580 1,496 685 1,430 1,247 462 1,663 1,074 1,074 1,267 2,279 1,267 658 920	c 3,633 8,510 1,425 2,248 6,972 5,310 11,071 2,403 3,699 8,676 8,240 14,665 4,543 7,070 11,429 11,938 17,778 8,279 12,147 14,923 14,735	835 1,675 466 823 958 1,042 1,853 61,080 1,108 1,291 2,076 875 1,464 1,333 1,606 2,259 1,271 1,880 1,271 1,880 1,272 2,365	2.40 2.95 3.16 4.09 1.26 2.11 2.53 3.55 1.14 1.66 2.07 1.96 2.77 1.97 1.37 1.66 1.59 2.18	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37 1.94 - 2.30 2.31 - 2.77 2.31 - 2.82 3.26 - 3.87 1.05 - 1.24 1.53 - 1.80 1.87 - 2.30 1.79 - 2.14 2.55 - 3.01 0.89 - 1.05 1.26 - 1.49 1.46 - 1.89 1.47 - 1.73 1.99 - 2.40 0.70 - 0.84 1.16 - 1.40 1.17 - 1.62	p-value  1.02E-84  1.62E-141  4.01E-95  1.48E-214  1.34E-07  4.47E-69  1.73E-92  2.80E-79  9.94E-200  2.14E-03  1.33E-33  1.01E-43  1.23E-51  3.28E-133  4.36E-01  3.59E-13  7.68E-15  8.63E-29  2.03E-63  1.29E-09  2.51E-07  8.61E-05	21 22 23	AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO3 AGO4 PUMILIO2 AGO1 AGO2 AGO3	3,940 894 5,155 1,804 1,425 3,338 717 4,060 1,252 1,125 2,825 589 3,166 967 976 976 2,395 504 2,462 764 876 2,034	432 99 520 158 265 381 85 418 121 215 340 76 347 96 187 306 65 272 86	17,488 20,534 16,273 19,624 20,003 18,090 20,711 17,368 20,176 20,303 18,603 20,839 18,262 20,461 20,452 19,033 20,924 18,966 20,664 20,552 19,394 20,992	2,106 2,439 2,018 2,380 2,157 2,453 2,120 2,417 2,323 2,198 2,462 2,191 2,442 2,351 2,232 2,473 2,266 2,452 2,452 2,366 2,269 2,481	1.10 1.07 1.23 1.38 0.61 1.04 1.00 1.19 1.24 0.60 0.98 0.92 1.09 0.90 0.90 0.90 1.20 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0	0.98 - 1.22 0.87 - 1.33 1.11 - 1.64 0.53 - 0.70 0.93 - 1.17 0.79 - 1.26 1.06 - 1.32 1.02 - 1.50 0.51 - 0.70 0.87 - 1.11 0.77 - 1.27 0.97 - 1.29 0.51 - 0.71 0.97 - 1.23 0.97 - 1.49 0.51 - 0.71 0.81 - 1.04 0.71 - 1.19 0.95 - 1.23 0.84 - 1.32 0.50 - 0.69	9.20E-02 5.17E-01 6.36E-05 1.38E-04 1.74E-12 4.57E-01 9.94E-01 2.46E-03 2.75E-02 2.41E-11 7.65E-01 4.76E-01 1.37E-01 9.11E-02 4.47E-10 5.13E-01 5.13E-01 5.13E-01 7.37E-02 4.47E-10 6.49E-01 7.37E-02 4.79E-01
Binding Length  15  16  17	Protein  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG01  AG01  AG01  AG01  AG01  AG02  AG03  AG04  PUMILIO2  AG01	a 17,795 12,918 20,003 19,180 14,456 16,118 10,357 19,025 17,729 12,752 13,188 6,763 16,885 14,358 9,999 9,490 3,650 6,693 1,964	1,703 863 2,072 1,715 1,580 1,496 685 1,920 1,4458 1,430 1,247 462 1,663 1,074 1,205 932 279 1,267 658 920 666 173	c 3,633 8,510 1,425 2,248 6,972 5,310 11,071 2,403 3,699 8,676 8,240 14,665 4,543 7,070 11,429 11,938 17,778 8,279 12,147 14,923 14,735	835 1,675 466 823 958 1,042 1,853 61,800 1,108 1,291 2,076 875 1,464 1,333 1,606 2,259 1,271 1,880 1,1880 1,872 2,365 1,628	2.40 2.95 3.16 4.09 1.26 2.11 2.53 2.55 3.55 1.14 1.66 2.07 1.96 2.77 0.97 1.66 1.59 2.18 0.77 1.28 1.38	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37 1.94 - 2.30 2.31 - 2.77 2.31 - 2.82 3.26 - 3.87 1.05 - 1.24 1.53 - 1.80 1.79 - 2.14 2.55 - 3.01 2.55 - 3.01 1.26 - 1.49 1.46 - 1.49 1.47 - 1.73 1.99 - 2.40 0.70 - 0.84 1.16 - 1.40	p-value  1.02E-84  1.62E-141  4.01E-95  1.48E-214  1.34E-07  4.47E-69  1.73E-92  2.80E-79  9.94E-200  2.14E-03  1.33E-33  1.01E-43  1.23E-51  3.28E-133  4.36E-01  3.59E-13  7.68E-15  8.63E-29  2.03E-63  1.29E-09  2.51E-07  8.61E-05  7.39E-14	21 22 23 24	AGO1 AGO2 AGO3 AGO4 PUMILIO2 AGO1 AGO2 AGO3 AGO4	3,940 894 5,155 1,804 1,425 3,338 717 4,060 1,252 1,125 2,825 589 3,166 967 976 2,395 504 2,462 764 876 2,034	432 99 520 158 265 381 85 418 121 215 340 76 347 96 65 272 86 172 269	17,488 20,534 16,273 19,624 20,003 18,090 20,711 17,368 20,176 20,303 18,603 20,839 18,262 20,451 20,452 19,033 20,924 18,966 20,664 20,552 19,394	2,106 2,439 2,380 2,273 2,157 2,453 2,120 2,417 2,323 2,198 2,492 2,491 2,442 2,351 2,266 2,452	1.10 1.07 1.23 1.38 0.61 1.04 1.00 1.19 1.24 0.60 0.98 0.92 1.09 1.20 0.60 0.92 1.05 0.92 0.92 0.92	0.98 - 1.22 0.87 - 1.33 1.11 - 1.64 0.53 - 0.70 0.93 - 1.17 0.79 - 1.26 1.02 - 1.50 0.51 - 0.70 0.87 - 1.11 0.72 - 1.17 0.97 - 1.23 0.97 - 1.49 0.51 - 0.71 0.81 - 1.04 0.71 - 1.19 0.95 - 1.23 0.84 - 1.32 0.50 - 0.69 0.77 - 1.01 0.68 - 1.20	9.20E-02 5.17E-01 1.38E-04 1.74E-12 4.57E-01 9.94E-01 2.46E-03 2.75E-02 2.41E-11 7.65E-01 1.37E-01 9.11E-02 4.47E-10 1.85E-01 5.13E-01 2.47E-01 0.47E-01 7.37E-02 4.47E-01 7.37E-02 4.79E-01
Binding Length  15  16  17	Protein  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG02  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG02  AG03	a 17,795 12,918 20,003 19,180 14,456 16,118 19,025 17,729 12,752 13,188 6,763 16,885 14,358 9,999 9,490 3,650 6,693 1,964 9,348	1,703 863 2,072 1,715 1,580 1,496 685 1,920 1,430 1,247 462 1,663 1,074 1,205 932 279 1,267 6658 920 6666 173 910	c 3,633 8,510 1,425 2,248 6,972 5,310 11,071 2,403 3,699 8,676 8,240 14,665 4,543 7,070 11,429 11,938 17,778 8,279 12,147 14,923 14,735 19,464 12,080	835 1,675 466 823 958 1,042 1,853 618 1,080 1,108 1,291 2,076 875 1,464 1,333 1,606 2,259 1,271 1,880 1,618 1,618 1,618 1,618 1,618 2,365 1,628 2,168	2.40 2.95 3.16 4.09 1.26 2.11 2.53 2.55 3.55 1.14 1.66 2.07 1.96 2.77 0.97 1.37 1.66 1.59 2.77 1.48 1.59 1.59 1.59 1.59 1.59 1.59 1.59 1.59	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37 1.94 - 2.30 2.31 - 2.77 2.31 - 2.82 3.26 - 3.87 1.05 - 1.24 1.53 - 1.80 1.79 - 2.14 2.55 - 3.01 0.89 - 1.05 1.26 - 1.49 1.46 - 1.89 1.47 - 1.73 1.99 - 2.40 0.70 - 0.84 1.16 - 1.40 1.17 - 1.62 1.27 - 1.51	p-value  1.02E-84  1.62E-141  4.01E-95  1.48E-214  1.34E-07  4.47E-69  1.73E-92  2.80E-79  9.94E-200  2.14E-03  1.33E-33  1.01E-43  1.23E-51  3.28E-133  4.36E-01  3.59E-13  7.68E-15  8.63E-29  2.03E-63  1.29E-09  2.51E-07  8.61E-05  7.39E-14  1.66E-24	21 22 23 24	AG01 AG02 AG03 AG04 PUMILIO2	3,940 5,155 1,804 1,425 3,338 717 4,060 1,252 1,125 589 3,166 967 976 2,395 504 2,462 462 4762 4762 4762 4762 4762 4764 4	432 99 520 158 265 381 85 418 121 215 340 76 347 96 187 306 65 272 272 288 172 269 57	17,488 20,534 16,273 19,624 20,003 18,090 20,711 17,368 20,176 20,303 18,603 20,839 18,262 20,461 20,452 19,033 20,924 18,966 20,552 19,394 20,992 19,531	2,106 2,439 2,273 2,157 2,453 2,120 2,417 2,323 2,191 2,442 2,351 2,266 2,452 2,452 2,453 2,462 2,473 2,266 2,269 2,366 2,269 2,481 2,309	1.10 1.07 1.23 1.38 0.61 1.04 1.00 1.19 1.24 0.60 0.98 0.92 1.09 1.20 0.60 0.92 0.92 1.05 0.59 0.59 0.59 0.59 0.59	0.98 - 1.22 0.87 - 1.33 1.11 - 1.64 0.53 - 0.70 0.93 - 1.17 0.79 - 1.26 1.06 - 1.32 1.02 - 1.50 0.51 - 0.70 0.87 - 1.11 0.72 - 1.17 0.97 - 1.23 0.97 - 1.49 0.51 - 0.71 0.81 - 1.04 0.71 - 1.19 0.95 - 1.23 0.84 - 1.32 0.50 - 0.69 0.77 - 1.01 0.68 - 1.20 0.85 - 1.13	9.20E-02 5.17E-01 1.38E-04 1.74E-12 4.57E-01 9.94E-01 2.46E-03 2.75E-02 2.41E-11 7.65E-01 4.76E-01 1.37E-01 9.11E-02 4.47E-10 1.85E-01 5.13E-01 2.47E-01 6.49E-01 7.37E-02 4.79E-01 7.37E-02 4.79E-01 7.76E-01 6.52E-01
Binding Length  15  16  17	Protein  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG02  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG02  AG03  AG04  AG04  AG04  AG04  AG06  AG07  AG07  AG08  AG08  AG09  AG09	a 17,795 12,918 20,003 19,180 16,118 10,357 17,729 12,752 13,188 6,763 16,885 14,358 9,999 9,490 3,650 6,505 6,693 1,149 9,381 1,964 9,348 5,046	1,703 863 2,072 1,715 1,580 1,496 685 1,920 1,458 1,430 1,247 462 1,663 1,074 1,205 932 279 1,267 666 173 910 370	c 3,633 8,510 1,425 2,248 6,972 5,310 11,071 2,403 3,699 8,676 8,240 14,665 4,543 7,070 11,429 11,938 17,778 8,279 12,147 14,923 14,735 19,464 12,080 16,382	d 835 1,675 466 823 958 1,042 1,853 618 1,291 2,076 875 1,464 1,333 1,606 2,259 1,271 1,880 1,618 1,872 2,365 1,628 2,168	2.40 2.95 3.16 4.09 1.26 2.11 2.53 2.55 3.55 1.14 1.66 2.07 1.96 2.77 0.97 1.37 1.66 1.59 2.18 1.38 1.38	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37 1.94 - 2.30 2.31 - 2.77 2.31 - 2.82 3.26 - 3.87 1.05 - 1.24 1.53 - 1.80 1.87 - 2.30 1.79 - 2.14 2.55 - 3.01 0.89 - 1.05 1.26 - 1.49 1.47 - 1.73 1.99 - 2.40 1.90 - 0.84 1.16 - 1.40 1.17 - 1.62 1.27 - 1.51 1.61 - 2.02	p-value  1.02E-84 1.62E-141 4.01E-95 1.48E-214 1.34E-07 4.47E-69 1.73E-92 2.80E-79 9.94E-200 1.33E-33 1.01E-43 1.23E-51 3.28E-133 4.36E-01 3.59E-13 7.68E-15 8.63E-29 2.03E-63 1.29E-09 2.51E-07 8.61E-05 7.39E-14 1.66E-24 7.04E-13	21 22 23 24	AG01 AG02 AG03 AG04 PUMILIO2 AG01 AG02 AG03 AG04 AG04 AG04 AG04 AG04 AG04 AG04 AG04	3,940 894 1,425 3,338 717 4,060 1,252 1,125 2,825 589 967 976 2,395 504 2,462 764 2,034 436 1,897 625	432 99 520 158 265 381 85 418 121 215 340 76 347 96 187 306 65 272 86 172 269 57 229	17,488 20,534 16,273 19,624 20,003 18,090 20,711 17,368 20,176 20,303 18,603 20,839 18,262 20,461 20,452 19,033 20,924 18,966 20,664 20,552 19,394 20,992 19,531 20,992	2,106 2,439 2,380 2,273 2,157 2,453 2,120 2,417 2,323 2,191 2,442 2,351 2,266 2,452 2,366 2,452 2,366 2,452 2,269 2,481 2,309 2,468	1.10 1.07 1.23 1.38 0.61 1.04 1.00 1.19 1.24 0.60 0.92 1.09 1.20 0.60 0.92 0.92 1.08 1.05 0.59 0.59 0.59 0.59 0.59 0.59 0.59	0.98 - 1.22 0.87 - 1.33 1.11 - 1.64 0.53 - 0.70 0.93 - 1.17 0.79 - 1.26 1.06 - 1.32 1.02 - 1.50 0.51 - 0.70 0.87 - 1.11 0.72 - 1.17 0.97 - 1.23 0.97 - 1.49 0.51 - 0.71 0.81 - 1.04 0.71 - 1.19 0.95 - 1.23 0.84 - 1.32 0.50 - 0.69 0.77 - 1.01 0.68 - 1.20 0.85 - 1.13 0.82 - 1.36	9.20E-02 5.17E-01 1.38E-04 1.74E-12 4.57E-01 9.94E-01 2.46E-03 2.75E-02 2.41E-11 7.65E-01 4.76E-01 1.37E-01 9.11E-02 4.47E-10 1.85E-01 5.13E-01 2.47E-01 6.49E-01 7.37E-02 4.79E-01 7.37E-02 4.79E-01 7.76E-01 6.52E-01
15 16 17 18 19	Protein  AG01  AG02  AG03  AG04  PUMILIO2	a 17,795 12,918 20,003 19,180 14,456 16,118 10,357 17,729 12,752 13,188 6,763 16,885 14,358 6,999 9,490 3,650 13,149 9,281 6,505 6,693 1,964 9,348 3,739 4,877 1,242	1,703 863 2,072 1,715 1,580 1,496 685 1,920 1,458 1,430 1,247 462 1,663 1,074 1,205 279 1,267 658 920 666 173 370 590 520 129	c 3,633 8,510 1,425 2,248 6,972 5,310 11,071 2,403 3,699 8,676 8,240 14,665 4,543 7,070 11,429 11,429 11,423 14,735 12,147 14,923 14,735 12,080 16,382 17,689 16,551 20,186	d 835 1,675 466 823 958 1,042 1,853 618 1,080 1,108 1,291 2,076 875 1,464 1,333 1,618 1,61	2.40 2.95 3.16 4.09 1.26 2.11 2.53 2.55 3.55 1.14 1.66 2.07 0.97 1.37 1.66 1.59 2.18 0.77 1.28 1.38 1.38 1.80 0.70 1.14	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37 1.94 - 2.30 2.31 - 2.77 2.31 - 2.82 3.26 - 3.87 1.05 - 1.24 1.53 - 1.80 1.79 - 2.14 2.55 - 3.01 0.89 - 1.05 1.26 - 1.49 1.47 - 1.73 1.99 - 2.40 0.70 - 0.84 1.17 - 1.62 1.27 - 1.51 1.61 - 2.02 0.63 - 0.77 1.03 - 1.27 0.95 - 1.38	p-value  1.02E-84 1.62E-141 4.01E-95 1.48E-214 1.34E-07 4.47E-69 1.73E-92 2.80E-79 9.94E-200 2.14E-03 1.33E-33 1.01E-43 1.23E-51 3.28E-133 4.36E-01 3.59E-13 7.68E-15 8.63E-29 2.03E-63 1.29E-09 2.51E-07 8.61E-05 7.39E-14 1.66E-24 7.04E-13 9.59E-03 1.43E-01	21 22 23 24	AG01 AG02 AG03 AG04 PUMILIO2 AG01 AG02 AG03 AG04 AG04 AG04 AG04 AG04 AG04 AG04 AG04	3,940 894 1,425 3,338 717 4,060 1,252 1,125 2,825 589 967 976 2,395 504 2,462 764 2,034 436 1,897 625	432 99 520 158 265 381 85 418 121 215 340 76 347 96 187 306 65 272 86 172 269 57 229	17,488 20,534 16,273 19,624 20,003 18,090 20,711 17,368 20,176 20,303 18,603 20,839 18,262 20,461 20,452 19,033 20,924 18,966 20,664 20,552 19,394 20,992 19,531 20,992	2,106 2,439 2,380 2,273 2,157 2,453 2,120 2,417 2,323 2,191 2,442 2,351 2,266 2,452 2,366 2,452 2,366 2,452 2,269 2,481 2,309 2,468	1.10 1.07 1.23 1.38 0.61 1.04 1.00 1.19 1.24 0.60 0.92 1.09 1.20 0.60 0.92 0.92 1.08 1.05 0.59 0.59 0.59 0.59 0.59 0.59 0.59	0.98 - 1.22 0.87 - 1.33 1.11 - 1.64 0.53 - 0.70 0.93 - 1.17 0.79 - 1.26 1.06 - 1.32 1.02 - 1.50 0.51 - 0.70 0.87 - 1.11 0.72 - 1.17 0.97 - 1.23 0.97 - 1.49 0.51 - 0.71 0.81 - 1.04 0.71 - 1.19 0.95 - 1.23 0.84 - 1.32 0.50 - 0.69 0.77 - 1.01 0.68 - 1.20 0.85 - 1.13 0.82 - 1.36	9.20E-02 5.17E-01 1.38E-04 1.74E-12 4.57E-01 9.94E-01 2.46E-03 2.75E-02 2.41E-11 7.65E-01 4.76E-01 1.37E-01 9.11E-02 4.47E-10 1.85E-01 5.13E-01 2.47E-01 6.49E-01 7.37E-02 4.79E-01 7.37E-02 4.79E-01 7.76E-01 6.52E-01
Binding Length  15  16  17	Protein  AG01  AG02  AG03  AG04  PUMILIO2  AG01  AG02  AG03	a 17,795 12,918 20,003 19,180 14,456 16,118 10,357 17,729 12,752 13,188 6,763 16,885 14,358 9,999 9,490 3,650 13,149 9,281 6,605 6,693 1,964 9,348 5,046 9,348 5,046 4,373 9,4877 1,242 6,632	1,703 863 2,072 1,715 1,580 1,496 68,920 1,4458 1,430 1,247 462 1,663 1,074 1,267 658 920 666 173 910 590 520 129 6661	c 3,633 8,510 1,425 2,248 6,972 5,310 11,071 2,403 3,699 8,676 8,240 14,665 4,543 7,070 11,429 11,429 11,429 11,423 14,735 12,080 16,382 17,682 16,551 20,186	835 1,675 466 823 958 1,042 1,853 618 1,080 1,108 1,291 2,076 875 1,464 1,330 1,271 1,880 1,618 1,872 2,365 1,628 2,168 2,168 2,168 2,218 2,409 1,948 2,409 1,877	2.40 2.95 3.16 4.09 1.26 2.11 2.53 3.55 1.14 1.66 2.07 1.96 1.37 1.66 1.59 2.18 0.77 1.28 1.38 1.38 1.38 1.30 0.70 1.14 1.15	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37 1.94 - 2.30 2.31 - 2.77 2.31 - 2.82 3.26 - 3.87 1.05 - 1.24 1.53 - 1.80 1.87 - 2.30 0.89 - 1.05 1.26 - 1.49 1.46 - 1.89 1.47 - 1.73 1.99 - 2.40 0.70 - 0.84 1.16 - 1.40 1.17 - 1.62 1.27 - 1.51 1.21 - 2.02 0.63 - 0.77 1.03 - 1.27 0.95 - 1.38 1.16 - 1.40	p-value  1.02E-84 1.62E-141 4.01E-95 1.48E-214 1.34E-07 4.47E-69 1.73E-92 2.80E-79 9.94E-200 2.14E-03 1.33E-33 1.01E-43 1.23E-13 3.28E-133 4.36E-01 3.59E-13 7.68E-15 8.63E-29 2.03E-63 1.29E-09 2.51E-07 8.61E-05 7.39E-14 1.66E-24 7.04E-13 9.59E-03 1.43E-01 3.79E-07	21 22 23 24	AG01 AG02 AG03 AG04 PUMILIO2 AG01 AG02 AG03 AG04 AG04 AG04 AG04 AG04 AG04 AG04 AG04	3,940 894 1,425 3,338 717 4,060 1,252 1,125 2,825 589 967 976 2,395 504 2,462 764 2,034 436 1,897 625	432 99 520 158 265 381 85 418 121 215 340 76 347 96 187 306 65 272 86 172 269 57 229	17,488 20,534 16,273 19,624 20,003 18,090 20,711 17,368 20,176 20,303 18,603 20,839 18,262 20,461 20,452 19,033 20,924 18,966 20,664 20,552 19,394 20,992 19,531 20,992	2,106 2,439 2,380 2,273 2,157 2,453 2,120 2,417 2,323 2,191 2,442 2,351 2,266 2,452 2,366 2,452 2,366 2,452 2,269 2,481 2,309 2,468	1.10 1.07 1.23 1.38 0.61 1.04 1.00 1.19 1.24 0.60 0.92 0.92 1.09 1.20 0.60 0.92 0.92 1.08 1.05 0.59 0.59 0.59 0.59 0.59 0.59 0.59 0	0.98 - 1.22 0.87 - 1.33 1.11 - 1.64 0.53 - 0.70 0.93 - 1.17 0.79 - 1.26 1.06 - 1.32 1.02 - 1.50 0.51 - 0.70 0.87 - 1.11 0.72 - 1.17 0.97 - 1.23 0.97 - 1.49 0.51 - 0.71 0.81 - 1.04 0.71 - 1.19 0.95 - 1.23 0.84 - 1.32 0.50 - 0.69 0.77 - 1.01 0.68 - 1.20 0.85 - 1.13 0.82 - 1.36	5.17E-01 6.36E-05 1.38E-04 1.74E-12 4.57E-01 9.94E-01 2.46E-03 2.75E-02 4.47E-10 1.37E-01 9.11E-02 4.47E-10 1.85E-01 5.13E-01 2.47E-01 3.76E-10 7.37E-02 4.79E-01
15 16 17 18 19	Protein  AG01  AG02  AG03  AG04  PUMILIO2	a 17,795 12,918 20,003 19,180 14,456 16,118 10,357 17,729 12,752 13,188 6,763 16,885 14,358 6,999 9,490 3,650 13,149 9,281 6,505 6,693 1,964 9,348 3,739 4,877 1,242	1,703 863 2,072 1,715 1,580 1,496 685 1,920 1,458 1,430 1,247 462 1,663 1,074 1,205 279 1,267 658 920 666 173 370 590 520 129	c 3,633 8,510 1,425 2,248 6,972 5,310 11,071 2,403 3,699 8,676 8,240 14,665 4,543 7,070 11,429 11,429 11,423 14,735 12,147 14,923 14,735 12,080 16,382 17,689 16,551 20,186	835 1,675 466 823 958 1,042 1,853 618 1,080 1,108 1,291 2,076 875 1,464 1,333 1,606 1,271 1,880 1,618 1,872 2,365 1,628 2,168 1,948 2,018	2.40 2.95 3.16 4.09 1.26 2.11 2.53 2.55 3.55 1.14 1.66 2.07 0.97 1.37 1.66 1.59 2.18 0.77 1.28 1.38 1.38 1.80 0.70 1.14	2.19 - 2.63 2.70 - 3.21 2.82 - 3.54 3.73 - 4.50 1.15 - 1.37 1.94 - 2.30 2.31 - 2.77 2.31 - 2.82 3.26 - 3.87 1.05 - 1.24 1.53 - 1.80 1.87 - 2.30 1.89 - 1.05 1.26 - 1.49 1.46 - 1.89 1.47 - 1.73 1.99 - 2.40 0.70 - 0.84 1.16 - 1.40 1.17 - 1.62 1.27 - 1.51 1.61 - 2.02 0.63 - 0.77 1.03 - 1.27 0.95 - 1.38 1.16 - 1.40 1.32 - 1.74	p-value  1.02E-84 1.62E-141 4.01E-95 1.48E-214 1.34E-07 4.47E-69 1.73E-92 2.80E-79 9.94E-200 2.14E-03 1.33E-33 1.01E-43 1.23E-51 3.28E-133 4.36E-01 3.59E-13 7.68E-15 8.63E-29 2.03E-63 1.29E-09 2.51E-07 8.61E-05 7.39E-14 1.66E-24 7.04E-13 9.59E-03 1.43E-01 3.79E-07 5.85E-09	21 22 23 24	AG01 AG02 AG03 AG04 PUMILIO2 AG01 AG02 AG03 AG04 AG04 AG04 AG04 AG04 AG04 AG04 AG04	3,940 894 1,425 3,338 717 4,060 1,252 1,125 2,825 589 967 976 2,395 504 2,462 764 2,034 436 1,897 625	432 99 520 158 265 381 85 418 121 215 340 76 347 96 187 306 65 272 86 172 269 57 229	17,488 20,534 16,273 19,624 20,003 18,090 20,711 17,368 20,176 20,303 18,603 20,839 18,262 20,461 20,452 19,033 20,924 18,966 20,664 20,552 19,394 20,992 19,531 20,992	2,106 2,439 2,380 2,273 2,157 2,453 2,120 2,417 2,323 2,191 2,442 2,351 2,266 2,452 2,366 2,452 2,366 2,452 2,269 2,481 2,309 2,468	1.10 1.07 1.23 1.38 0.61 1.04 1.00 1.19 1.24 0.60 0.92 0.92 1.09 1.20 0.60 0.92 0.92 1.08 1.05 0.59 0.59 0.59 0.59 0.59 0.59 0.59 0	0.98 - 1.22 0.87 - 1.33 1.11 - 1.64 0.53 - 0.70 0.93 - 1.17 0.79 - 1.26 1.06 - 1.32 1.02 - 1.50 0.51 - 0.70 0.87 - 1.11 0.72 - 1.17 0.97 - 1.23 0.97 - 1.49 0.51 - 0.71 0.81 - 1.04 0.71 - 1.19 0.95 - 1.23 0.84 - 1.32 0.50 - 0.69 0.77 - 1.01 0.68 - 1.20 0.85 - 1.13 0.82 - 1.36	9.20E-02 5.17E-01 1.38E-04 1.74E-12 4.57E-01 9.94E-01 2.46E-03 2.75E-02 2.41E-11 7.65E-01 4.76E-01 1.37E-01 9.11E-02 4.47E-10 1.85E-01 5.13E-01 2.47E-01 6.49E-01 7.37E-02 4.79E-01 7.37E-02 4.79E-01 7.76E-01 6.52E-01

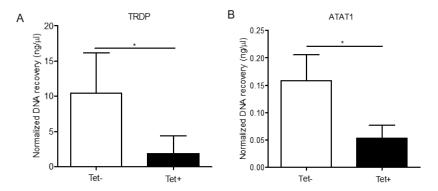
## 2. Supplementary figures legends



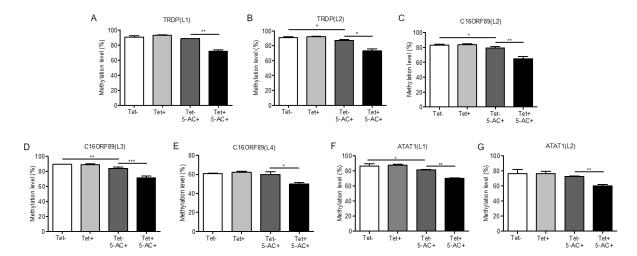
**Figure S1** Distribution of DNA bases on methylation and AGO4 binding sites. Raw data of promoter methylation arrays provided both genomic location and methylation levels through 15 probes per one gene promoter. Each probe is 50 bp in length. Met+ is referred to as the methylation level in the 80<sup>th</sup> percentile. Remaining methylation levels were referred to as Met-. ClipZ database provided the genomic locations of AGO binding sites. Each binding site is about 15-20 bp in length. AGO4+ is referred to as the overlab between an AGO4 binding site and a methylation probe, while AGO4- is referred to as no AGO4 binding sites on a methylation probe. (**A to D**) The distribution categorized by (Met+, AGO4+), (Met+, AGO4-), (Met-, AGO4+), and (Met-, AGO4-), respectively. Sense strands were collected from every CpG on the methylation probes by centering CpG between 20-bp flanking sequences on the left and on the right. A total length was 42 bp. (**E to H**) The distribution categorized by (Met+, AGO4+sense), (Met+, AGO4+Antisense), (Met+, AGO4+Antisense), (Met-, AGO4+Sense), and (Met-, AGO4+Antisense), respectively where "Sense/Antisense" denotes the orientation of AGO4 binding sites. The sense strands of AGO4 binding sites were centered and then padded with flanking sequences. A total length was 61bp.



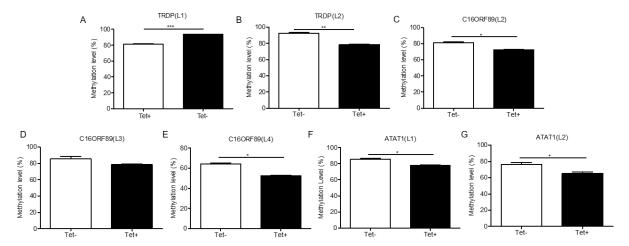
**Figure S2** Distribution of AGO4 binding sites on gene promoters. (**A to D**) Distribution of (Met+,AGO4+antisense), (Met+,AGO4+sense), (Met-,AGO4+antiense), and (Met-,AGO4+sense), respectively. Definitions of Met+, Met-, AGO4+, AGO4-, sense, and antisense are given in supplementary figure S1.



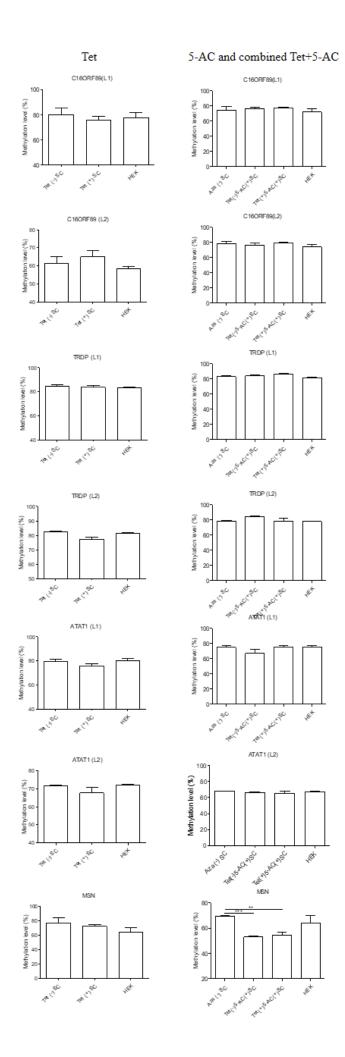
**Figure S3** Proving of AGO4-binding genes. The graphs showed AGO4 quantities compared between the presence and absence of AGO4 in HEK293 cells, respectively. In Tet- condition, it significantly showed a higher amount of AGO4-binding genes than Tet+ condition (**A**) TRDP and (**B**) ATAT1, tested by a paired-sample T-test: p<0.05 is represented as \*.



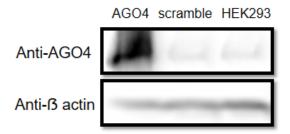
**Figure S4** Confirmation of AGO4 protein associated to methylation level in AGO4-binding genes, independently function to DNA methyltransferase (DNMT). Each CpG location (represented as L) found in genes of interest was observed. Whether or not presense of AGO4 (Tet-, Tet+), methylation level in every gene did not change; however, when 5'-azacytidine was applied with the presence of AGO4 (Tet-, Aza+), methylation level in AGO4-binding genes was significantly promoted compared to the absence of AGO4 (Tet+, Aza+) (**A to B**) *TRDP*(L1) and (L2) (**C to E**) *C160RF89*(L2), (L3) and (L4), respectively (**F to G**) *ATAT1*(L1) and (L2). Statistics was analyzed using a paired-sample T-test: p<0.05, p<0.01 and p<0.005 are represented \*, \*\* and \*\*\*, respectively.



**Figure S5** Recovery of methylation level in some gene-containing AGO4-binding sites, in concordance with the presence of the AGO4 proteins after withdrawal of 5'-azacytidine. The graphs depicted that methylation level was increased in Tet+ treated HEK293 cells, statistical test using a paired-sample T-test was shown where p<0.05, p<0.01 and p<0.005 are represented as \*, \*\* and \*\*\*, respectively. (**A to B**) TRDP(L1) and (L2) (**C to E**) C16ORF89(L2), (L3) and (L4) (**F to G**) C6ORF134(L1) and (L2).



**Figure S6** Tetracycline (Tet) (the first panel), and 5'-azacytidine and combined tetracycline and 5'-azacytidine treatment (the second panel) in scramble shRNA transfected HEK293 cells. Methylation levels were observed in AGO4-binding genes: C16ORF89 (L1 to L2), TRDP (L1 and L2), ATAT1 (L1 and L2) and non AGO4-binding gene, MSN. Statistical test using an unpaired T-test was shown where p<0.05 is represented as \*\*, and SC means scramble shRNA transfected cells.



**Figure S7** AGO4 protein expression in AGO4 plasmid and scramble shRNA transfected- and untransfected HEK293 cells at 48 hours after transfection. AGO4 protein was upregulated in AGO4 plasmid transfected HEK293 while scramble shRNA transfected HEK293 showed low level of AGO4 protein as same as in untransfected HEK293 cells. β-actin was used to confirm equal protein loading of each lane.