

Supplementary Materials: Genome-Wide Identification and Expression Profiling Analysis of the Galactinol Synthase Gene Family in Cassava (*Manihot esculenta* Crantz)

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Table S1. The primers were used for gene cloning and qRT-PCR analysis of *MeGolS* genes.

Gene	Forward primer (5'-3')	Reverse primer (5'-3')
MeGolS1	GATGTCTCCTAACGCAACCA	AGCAGATGGAGCAGTTCT
MeGolS2	GATGTCTCCTAACGCAACCA	TTTAAGCAGCAGATGGAGCA
MeGolS3	ATTGACAGCCTTAGGCAGCAGA	ATAAACTTTTCAAGCAGCAGAGGG
MeGolS4	CCCACTCTCTGTCTGCGATTCT	GCTTTTGCTCTTTTACATATTCCG
MeGolS5	CTCTTCATGGCTCCTGATCTCAC	ATTGACAGCCTTAGGCAGCAGA
MeGolS6	GATCATGGCTCCAAATCTCACC	TGATAGTCTGATACAGCTTAGGCAGC
MeGolS7	CCCAACCAGCAAAGCAAATA	ACAGCCTTAGGCAGCAGATG
MeGolS8	ATTGCTCTTACTCCTTTACCACTATCGC	GCCTTCGCTGTTCTATTGCCATC
QMeGolS1	CATCTCATGCCATCAGTTTCC	CCATTGCCAGCCAAGAAC
QMeGolS2	CGTAACACAATCGTGGACCCC	TTGCCTTCCTTAAACCCTTGG
QMeGolS3	GAAGATGAACTTTGACAAGGACA	AGGGAAAGGGTAGTATTACAGCAA
QMeGolS4	TTACCCTCCAGAAAACCAAATC	CCATCAGGCAAATCAAATAGGT
QMeGolS5	CTTGCAATCCAATTTCTTTTCTACA	GCCGACAACCTTTCACA
QMeGolS6	GACTACAAGAACACCGTGGGC	TGATACAGCTTAGGCAGCAGAT
QMeGolS7	GCCCAACCAGCAAAGCAAAT	GCGGTGGTGAGATCAGGAGC
QMeGolS8	AAGACAGTCGCCGTCCTCCTC	TCCACATTCTCTTGGTGACGCC
β -tubulin	GTGGAGGAACTGGTTCTGGA	TGCACTCATCTGCATTCTCC

Table S2. List of the putative motifs of GolS proteins from cassava and Arabidopsis.

Motif	Width	Best possible match
1	50	INYSKLRIWEFVEYSKMIYLDGDIQVFENIDHLFDLPDGYFYAVMDCFCMEME
2	50	WRHPENVELDKVKVVHYCAAGSKPWRYTGKEENMDREDIKMLVKKWWDIYMEME
3	50	SRAYVTFLAGNGDYVKGVVGLAKGLRKVKSAYPLVVAVLPDVPEEHRQILMEME
4	50	PPLYFNAGMFVFEPNLSTYEDLLKTVKITPPTPFAEQDFLNMFFKDIYKPMEME
5	23	TWSHSPQYKIGYCQQCPDRVTWPMEME
6	21	GCIVREIEPVYPPENQTQFAMMEME
7	11	PPVYNLVLAMLMEME
8	15	NDESLDYKNTVAAAGMEME
9	15	SEAGVVHYVTAPSAAMEME
10	21	MAPDLTTAAKTTTGLVKQASJMEME

Table S3 Predicted cis-acting elements in the promoter regions of MeGolSs

Type	cis-element	Organism	function	MeGolS1	MeGolS2	MeGolS3	MeGolS4	MeGolS5	MeGolS6	MeGolS7	MeGolS8
Hormone-relative elements	ABRE	Arabidopsis thaliana	cis-acting element	/	385/+6, 1284/-	/	297/-7, 1393/+	247/+6, 488/-	489/+6, 917/-	619/+6, 1071/-	1268/+10, 1271/-6, 1269/+9
	TGA-box	Glycine max	part of an auxin-response element	/	/	/	460/-8	/	/	/	/
	TGA-element	Brassica oleracea	auxin-response element	/	/	/	382/-6	/	963/-6, 1343/+	/	/
	CGTCA-motif	Hordeum vulgare	cis-acting regulatory element	/	/	220/-5	463/+5	510/+5	/	/	/
	TGACG-motif	Hordeum vulgare	cis-acting regulatory element	/	/	220/+5	463/-5	510/-5	/	/	/
	ERE	Dianthus carvifolius	ethylene-response element	/	/	467/+8, 507/-	1127/+8	/	/	/	/
	GARE	Brassica oleracea	gibberellin-response element	/	/	/	/	1231/+7	/	1040/+7	/
	P-box	Oryza sativa	gibberellin-response element	/	/	/	13/+7	/	976/+7	/	/
	TATC	Oryza sativa	cis-acting element	/	/	/	411/+7	/	/	/	/
	TCA-element	Nicotiana tabacum	cis-acting element	154/+9	/	/	142/+9	451/-9	585/-9	/	1071/+9
Stress-relative elements	HSE	Brassica oleracea	cis-acting element	514/-9, 1359/+	588/+10	511/+9, 798/-	1343/-8	109/-9	9/+9, 123/+9	80/-9, 410/-9	21/-9, 1220/-8, 131/-9, 91/+9, 156/-9
	LTR	Hordeum vulgare	cis-acting element	/	102/+6, 1233/-	517/-6, 526/-	/	/	/	/	/
	MBS	Arabidopsis thaliana	MYB binding site	/	/	1/+6	/	203/+6, 1253/-	427/-6, 1116/+	837/+6	416/+6
	TC-rich repeat	Nicotiana tabacum	cis-acting element	288/+9, 1428/-	975/-9	372/+9, 1447/-	197/+9, 1019/-	1094/+9	/	/	1125/-9, 1413/+9
	WUN-motif	Brassica oleracea	wound-response element	/	/	/	574/-9	/	/	/	/
	ARE	Zea mays	cis-acting regulatory element	657/-6	245/+6, 1236/-	1393/-6	835/-6	/	805/-6	484/+6, 1035/-	/
	GC-motif	Zea mays	enhancer-like element	/	/	/	/	/	/	/	1364/+6
Tissue specific-relative elements	Skn-1 motif	Oryza sativa	cis-acting regulatory element	1119/+5	420/-5, 932/+	858/-5	100/-5, 1240/+	467/-5, 1385/+	/	/	441/+5
	GCN4 motif	Oryza sativa	cis-regulatory element	/	1222/+7	/	/	/	/	1045/-7	/
	CCGTCC-box	Arabidopsis thaliana	cis-acting regulatory element	/	/	1242/+6	/	1016/+6	453/+6, 1243/-	/	391/+6
	CAT-box	Arabidopsis thaliana	cis-acting regulatory element	/	1130/+6	/	/	/	/	/	1369/+6
	RY-element	Helianthus annuus	cis-acting regulatory element	1458/-8	/	/	/	/	/	762/-8	/
	as-2-box	Nicotiana tabacum	involved in shikimate biosynthesis	884/+9	/	/	/	/	/	/	/
	Nodule-site2	Glycine max	/	/	/	/	/	107/+5	/	/	/

Table S4. Predicted miRNAs targeted to MeGolS genes.

miRNA_A cc.	Inhibitio n	Target_A cc.	Expectation	UPE \$	miRNA_st art	miRNA_e nd	Target_st art	Target_e nd	miRNA_aligned_fragment	Target_aligned_fragment	Multiplic ity
mes- miR156a	Cleavage	<i>MeGolS1</i>	5	2.337	1	20	37	55	UGACAGAAGAGAGUGAGC AC	AUUCUCUCUCUCUUCU-UCA	1
mes- miR156b	Cleavage	<i>MeGolS1</i>	5	2.337	1	20	37	55	UGACAGAAGAGAGUGAGC AC	AUUCUCUCUCUCUUCU-UCA	1
mes- miR156c	Cleavage	<i>MeGolS1</i>	5	2.337	1	20	37	55	UGACAGAAGAGAGUGAGC AC	AUUCUCUCUCUCUUCU-UCA	1
mes- miR156d	Cleavage	<i>MeGolS1</i>	5	2.337	1	20	37	55	UGACAGAAGAGAGUGAGC AC	AUUCUCUCUCUCUUCU-UCA	1
mes- miR156e	Cleavage	<i>MeGolS1</i>	5	2.337	1	20	37	55	UGACAGAAGAGAGUGAGC AC	AUUCUCUCUCUCUUCU-UCA	1
mes- miR156f	Cleavage	<i>MeGolS1</i>	5	2.337	1	20	37	55	UGACAGAAGAGAGUGAGC AC	AUUCUCUCUCUCUUCU-UCA	1
mes- miR156g	Cleavage	<i>MeGolS1</i>	5	2.337	1	20	37	55	UGACAGAAGAGAGUGAGC AC	AUUCUCUCUCUCUUCU-UCA	1
mes- miR156h	Cleavage	<i>MeGolS1</i>	5	2.248	1	21	37	56	UUGACAGAAGAUAGAGAG CAC	AUUCUCUCUCUCUUCU- UCAA	1
mes- miR156i	Cleavage	<i>MeGolS1</i>	5	2.248	1	21	37	56	UUGACAGAAGAUAGAGAG CAC	AUUCUCUCUCUCUUCU- UCAA	1
mes- miR156j	Cleavage	<i>MeGolS1</i>	5	2.248	1	21	37	56	UUGACAGAAGAUAGAGAG CAC	AUUCUCUCUCUCUUCU- UCAA	1
mes- miR156k	Cleavage	<i>MeGolS1</i>	4	2.337	1	21	36	55	UGACAGAAGAGAGAGAGC ACA	UAUUCUCUCUCUCUUCU- UCA	1

mes-miR403a	Translati on	<i>MeGolS1</i>	5	19.77 4	1	21	891	911	UUAGAUUCACGCACAAAC UCG	AUUGUAUGUGCAUGAAUUC AA	1
mes-miR403b	Translati on	<i>MeGolS1</i>	5	19.77 4	1	21	891	911	UUAGAUUCACGCACAAAC UCG	AUUGUAUGUGCAUGAAUUC AA	1
mes-miR403a	Translati on	<i>MeGolS2</i>	5	15.12 5	1	21	891	911	UUAGAUUCACGCACAAAC UCG	AAUGUUUGUGUUUGAGCCU GA	1
mes-miR403b	Translati on	<i>MeGolS2</i>	5	15.12 5	1	21	891	911	UUAGAUUCACGCACAAAC UCG	AAUGUUUGUGUUUGAGCCU GA	1
mes-miR164a	Translati on	<i>MeGolS3</i>	5	4.984	1	21	1982	2002	UGGAGAAGCAGGGCACGU GCA	GCUACUUGGCCUCCUUCUU CU	1
mes-miR164b	Translati on	<i>MeGolS3</i>	5	4.984	1	21	1982	2002	UGGAGAAGCAGGGCACGU GCA	GCUACUUGGCCUCCUUCUU CU	1
mes-miR164c	Translati on	<i>MeGolS3</i>	5	4.984	1	21	1982	2002	UGGAGAAGCAGGGCACGU GCA	GCUACUUGGCCUCCUUCUU CU	1
mes-miR164d	Translati on	<i>MeGolS3</i>	5	18.40 1	1	21	758	778	UGGAGAAGCAGGGCACAU GCU	GACAUGGGCUCUCCUCCUC CC	1
mes-miR403a	Cleavage	<i>MeGolS3</i>	5	20.95 2	1	21	2282	2302	UUAGAUUCACGCACAAAC UCG	GUAUUUGUGUGUGAAAUU GC	1
mes-miR403b	Cleavage	<i>MeGolS3</i>	5	20.95 2	1	21	2282	2302	UUAGAUUCACGCACAAAC UCG	GUAUUUGUGUGUGAAAUU GC	1
mes-miR159a	Cleavage	<i>MeGolS4</i>	5	12.61 9	1	21	150	169	UUUGGAUUGAAGGGAGCU CUA	CUGAGCUUC- UUCAAUCUGCA	1
mes-miR159b	Cleavage	<i>MeGolS4</i>	5	12.61 9	1	21	150	169	UUUGGAUUGAAGGGAGCU CUA	CUGAGCUUC- UUCAAUCUGCA	1
mes-miR2275	Cleavage	<i>MeGolS4</i>	5	14.52 1	1	22	1751	1772	UUUGGUUCCUCCAUAU CUUA	ACAUACUAGUGGGAGACC AAA	1

mes-miR169a	Cleavage	<i>MeGolS5</i>	4.5	22.38	1	21	1346	1365	CAGCCAAGGAUGACUUGC CGG	UCUGCAAC- CAUUCUUGGCUG	1
mes-miR169aa	Cleavage	<i>MeGolS5</i>	5	22.38	1	21	1346	1365	UAGCCAAGGAUGACUUGC CUG	UCUGCAAC- CAUUCUUGGCUG	1
mes-miR169ab	Cleavage	<i>MeGolS5</i>	5	22.38	1	21	1346	1365	UAGCCAAGGAUGACUUGC CUA	UCUGCAAC- CAUUCUUGGCUG	1
mes-miR169ac	Cleavage	<i>MeGolS5</i>	5	22.38	1	21	1346	1365	UAGCCAAGGAUGACUUGC CUA	UCUGCAAC- CAUUCUUGGCUG	1
mes-miR169b	Cleavage	<i>MeGolS5</i>	4.5	22.38	1	21	1346	1365	CAGCCAAGGAUGACUUGC CGG	UCUGCAAC- CAUUCUUGGCUG	1
mes-miR169c	Cleavage	<i>MeGolS5</i>	4.5	22.38	1	21	1346	1365	CAGCCAAGGAUGACUUGC CGG	UCUGCAAC- CAUUCUUGGCUG	1
mes-miR169d	Cleavage	<i>MeGolS5</i>	4.5	22.38	1	21	1346	1365	CAGCCAAGGAUGACUUGC CGG	UCUGCAAC- CAUUCUUGGCUG	1
mes-miR169e	Cleavage	<i>MeGolS5</i>	4.5	22.38	1	21	1346	1365	CAGCCAAGGAUGACUUGC CGG	UCUGCAAC- CAUUCUUGGCUG	1
mes-miR169f	Cleavage	<i>MeGolS5</i>	5	22.38	1	21	1346	1365	UAGCCAAGGAUGACUUGC CGG	UCUGCAAC- CAUUCUUGGCUG	1
mes-miR169g	Cleavage	<i>MeGolS5</i>	4.5	22.38	1	21	1346	1365	CAGCCAAGGAUGACUUGC CGA	UCUGCAAC- CAUUCUUGGCUG	1
mes-miR169i	Cleavage	<i>MeGolS5</i>	5	22.38	1	21	1346	1365	GAGCCAAGAAUGACUUGC CGG	UCUGCAAC- CAUUCUUGGCUG	1
mes-miR169j	Cleavage	<i>MeGolS5</i>	5	22.38	1	21	1346	1365	GAGCCAAGAAUGACUUGC CGG	UCUGCAAC- CAUUCUUGGCUG	1
mes-miR169k	Cleavage	<i>MeGolS5</i>	5	22.38	1	21	1346	1365	GAGCCAAGAAUGACUUGC CGG	UCUGCAAC- CAUUCUUGGCUG	1

mes-miR169l	Cleavage	<i>MeGolS5</i>	4	22.38	1	21	1346	1365	CAGCCAAGAAUGACUUGC	UCUGCAAC-	1
				2					CGG	CAUUCUUGGCUG	
mes-miR169m	Cleavage	<i>MeGolS5</i>	4	22.38	1	21	1346	1365	CAGCCAAGAAUGACUUGC	UCUGCAAC-	1
				2					CGG	CAUUCUUGGCUG	
mes-miR169n	Cleavage	<i>MeGolS5</i>	5	22.38	1	21	1346	1365	GAGCCAAGAAUGACUUGC	UCUGCAAC-	1
				2					CGA	CAUUCUUGGCUG	
mes-miR169o	Cleavage	<i>MeGolS5</i>	5	22.38	1	21	1346	1365	UAGCCAAGGAUGACUUGC	UCUGCAAC-	1
				2					CUG	CAUUCUUGGCUG	
mes-miR169p	Cleavage	<i>MeGolS5</i>	5	22.38	1	21	1346	1365	UAGCCAAGGAUGACUUGC	UCUGCAAC-	1
				2					CUG	CAUUCUUGGCUG	
mes-miR169q	Cleavage	<i>MeGolS5</i>	5	22.38	1	21	1346	1365	UAGCCAAGGAUGACUUGC	UCUGCAAC-	1
				2					CUG	CAUUCUUGGCUG	
mes-miR169r	Cleavage	<i>MeGolS5</i>	5	22.38	1	21	1346	1365	UAGCCAAGGAUGACUUGC	UCUGCAAC-	1
				2					CCG	CAUUCUUGGCUG	
mes-miR169s	Cleavage	<i>MeGolS5</i>	5	22.38	1	21	1346	1365	UAGCCAAGGAUGACUUGC	UCUGCAAC-	1
				2					CUG	CAUUCUUGGCUG	
mes-miR169t	Cleavage	<i>MeGolS5</i>	5	22.38	1	21	1346	1365	UAGCCAAGGAUGACUUGC	UCUGCAAC-	1
				2					CCG	CAUUCUUGGCUG	
mes-miR169u	Cleavage	<i>MeGolS5</i>	5	22.38	1	21	1346	1365	UAGCCAAGGAUGACUUGC	UCUGCAAC-	1
				2					CUG	CAUUCUUGGCUG	
mes-miR169v	Cleavage	<i>MeGolS5</i>	5	22.38	1	21	1346	1365	UAGCCAAGGAUGACUUGC	UCUGCAAC-	1
				2					CCG	CAUUCUUGGCUG	
mes-miR169w	Cleavage	<i>MeGolS5</i>	5	22.38	1	21	1346	1365	UAGCCAAGGAUGACUUGC	UCUGCAAC-	1
				2					CUG	CAUUCUUGGCUG	
mes-miR169x	Cleavage	<i>MeGolS5</i>	5	22.38	1	21	1346	1365	UAGCCAAGGAUGACUUGC	UCUGCAAC-	1
				2					CCG	CAUUCUUGGCUG	

mes-miR169y	Cleavage	MeGolS5	5	22.38	1	21	1346	1365	UAGCCAAGGAUGACUUGC	UCUGCAAC-	1
				2					CUG	CAUUCUUGGCUG	
mes-miR169z	Cleavage	MeGolS5	5	22.38	1	21	1346	1365	UAGCCAAGGAUGACUUGC	UCUGCAAC-	1
				2					CCG	CAUUCUUGGCUG	
mes-miR2111a	Cleavage	MeGolS5	4.5	13.40	1	21	1246	1266	UAAUCUGCAUCCUGAGGU	AAGACAUCAAGAUGCUGGU	1
				9					UUA	UA	
mes-miR2111b	Cleavage	MeGolS5	4.5	13.40	1	21	1246	1266	UAAUCUGCAUCCUGAGGU	AAGACAUCAAGAUGCUGGU	1
				9					UUA	UA	
mes-miR172e	Translati on	MeGolS6	5	18.60	1	21	893	913	GGAAUCUUGAUGAUGCUG	UUGGAUCAUUGGCAGGAUU	1
				8					CAG	UC	
mes-miR172f	Translati on	MeGolS6	5	18.60	1	21	893	913	GGAAUCUUGAUGAUGCUG	UUGGAUCAUUGGCAGGAUU	1
				8					CAG	UC	
mes-miR397	Translati on	MeGolS6	3.5	16.77	1	20	1047	1066	UUUGAGUGCAGCGUUGAU	GUAUCAAGAUGCUCUAA	1
									GA	A	
mes-miR159c	Translati on	MeGolS7	5	13.89	1	21	1310	1330	AUUGGAGUGAAGGGAGCU	UUGAGGUUCUAUGAUUCUA	1
				6					CUG	AU	
mes-miR159d	Translati on	MeGolS7	5	13.89	1	21	1310	1330	AUUGGAGUGAAGGGAGCU	UUGAGGUUCUAUGAUUCUA	1
				6					CUG	AU	
mes-miR169g	Cleavage	MeGolS7	5	24.65	1	21	1503	1523	CAGCCAAGGAUGACUUGC	AUCCGGAUCAUUCUUGGC	1
				8					CGA	UG	
mes-miR169h	Translati on	MeGolS7	4.5	16.03	1	21	273	293	UGAGCCAAGGAUGACUUG	GACCAAGUUUGCCAUGGCU	1
				5					CCG	CA	
mes-miR169l	Cleavage	MeGolS7	5	24.65	1	21	1505	1523	CAGCCAAGAAUGACUUGC	CCGGAA--	1
				8					CGG	UCAUUCUUGGCUG	
mes-miR169m	Cleavage	MeGolS7	5	24.65	1	21	1505	1523	CAGCCAAGAAUGACUUGC	CCGGAA--	1
				8					CGG	UCAUUCUUGGCUG	

mes-miR828a	Translati on	MeGolS7	5	14.85 7	1	22	1640	1662	UCUUGCUCAAA- UGAGUAUUGCA	AAUAAUAAUUAGUUUUAGC AAGU	1
mes-miR828b	Translati on	MeGolS7	5	14.85 7	1	22	1640	1662	UCUUGCUCAAA- UGAGUAUUGCA	AAUAAUAAUUAGUUUUAGC AAGU	1
mes-miR1446	Cleavage	MeGolS8	4	20.50 5	1	20	531	550	UUCUGAACUCUCUCCUC AU	UUGAGAGAGAGAGAACAGA A	1
mes-miR159a	Cleavage	MeGolS8	5	13.55 4	1	21	4760	4780	UUUGGAUUGAAGGGAGCU CUA	CUGAAGUUGAUUCAAUUCA AA	1
mes-miR159b	Cleavage	MeGolS8	5	13.55 4	1	21	4760	4780	UUUGGAUUGAAGGGAGCU CUA	CUGAAGUUGAUUCAAUUCA AA	1
mes-miR171b	Translati on	MeGolS8	4	20.57	1	21	115	135	UUGAGCCGUGCCAAUAUC ACG	GGUGUUAUUGGCUUGGCUA AA	1
mes-miR171c	Translati on	MeGolS8	4	20.57	1	21	115	135	UUGAGCCGUGCCAAUAUC ACG	GGUGUUAUUGGCUUGGCUA AA	1
mes-miR171d	Translati on	MeGolS8	5	20.57	1	21	115	135	AUGAGCCGUGCCAAUAUC ACG	GGUGUUAUUGGCUUGGCUA AA	1
mes-miR2275	Translati on	MeGolS8	5	22.74 6	1	22	8070	8091	UUUGGUUCCUCCAAUAU CUUA	UUCUUUAUUGGAGAAAGCC CAA	1
mes-miR319a	Translati on	MeGolS8	4.5	22.09 9	1	21	3710	3730	UUGGACUGAAGGGAGCUC CCU	AUGGAGAUCUCUGCGGUCC UA	1
mes-miR319b	Translati on	MeGolS8	4.5	22.09 9	1	21	3710	3730	UUGGACUGAAGGGAGCUC CCU	AUGGAGAUCUCUGCGGUCC UA	1
mes-miR319c	Translati on	MeGolS8	4.5	22.09 9	1	21	3710	3730	UUGGACUGAAGGGAGCUC CCU	AUGGAGAUCUCUGCGGUCC UA	1
mes-miR319d	Translati on	MeGolS8	4.5	22.09 9	1	21	3710	3730	UUGGACUGAAGGGAGCUC CCU	AUGGAGAUCUCUGCGGUCC UA	1

mes-miR319e	Translati on	<i>MeGolS8</i>	4.5	22.09 9	1	21	3710	3730	UUGGACUGAAGGGAGCUC CCU	AUGGAGAUCUCUGCGGUCC UA	1
mes-miR319f	Translati on	<i>MeGolS8</i>	4.5	22.09 9	1	21	3710	3730	UUGGACUGAAGGGAGCUC CUU	AUGGAGAUCUCUGCGGUCC UA	1
mes-miR319g	Translati on	<i>MeGolS8</i>	4.5	22.09 9	1	21	3710	3730	UUGGACUGAAGGGAGCUC CUU	AUGGAGAUCUCUGCGGUCC UA	1
mes-miR403a	Translati on	<i>MeGolS8</i>	4	17.52 7	1	21	1414	1434	UUAGAUUCACGCACAAAC UCG	AGGGUUUGUGCAUGGUUUU AA	2
mes-miR403a	Translati on	<i>MeGolS8</i>	4	19.08 2	1	21	1981	2001	UUAGAUUCACGCACAAAC UCG	AGGGUUUGUGCAUGGUUUU AA	2
mes-miR403b	Translati on	<i>MeGolS8</i>	4	17.52 7	1	21	1414	1434	UUAGAUUCACGCACAAAC UCG	AGGGUUUGUGCAUGGUUUU AA	2
mes-miR403b	Translati on	<i>MeGolS8</i>	4	19.08 2	1	21	1981	2001	UUAGAUUCACGCACAAAC UCG	AGGGUUUGUGCAUGGUUUU AA	2
mes-miR827	Cleavage	<i>MeGolS8</i>	4.5	19.89 4	1	21	3209	3229	UUAGAUGACCAUCAACAA ACA	AGUUUGGUGAUGGUUCUGU AA	1