

A

RITA RNA transcript



Frame	+2	1	
			2
Frame	+3		
# amino acids		12	78

BLAST P results for ORF2

Accession	Description	Total Score	Query Coverage	E value
XP_846961.1	hypothetical protein [ <i>Trypanosoma brucei</i> TREU927]>gb AAX70328.1	33.5	63%	8.2
ZP_01463987.1	phosphoribosylformylglycinamide synthase [ <i>Stigmatella aurantiaca</i> DW4/3-1]>gb EAU65257.1T	33.1	70%	10.0

B

MRD1 RNA transcript



Frame	+1	2	
			3
Frame	+2		
		1	
Frame	+3		

ORF1 - 5 amino acids - MERVW

ORF2- 32 amino acids - MGNYDSRRRQQIWWISSSVSSRRYLSSDEPPW

ORF3 - 120 amino acids

BLAST P results for ORF3

Accession	Description	Total Score	Query Coverage	E value
XP_002887100.1	hypothetical protein ARAYLDRAFT_475803 [ <i>Arabidopsis lyrata</i> subsp. <i>lyrata</i> ] >gb EFH63359.1	130	100%	7e-29
NP_195929.1	hypothetical protein [ <i>Arabidopsis thaliana</i> ] >emb CAB86076.1	122	65%	2e-26
ZP_08108626.1	hypothetical protein HMPREF9475_03490 [ <i>Clostridium symbiosum</i> WAL-14673] >gb EGB17427.1	37	68%	0.88
ZP_08092817.1	hypothetical protein HMPREF9474_04568 [ <i>Clostridium symbiosum</i> WAL-14163] >gb EGA91609.1	37	68%	0.89
ZP_08176587.1	adenine specific DNA methylase Mod [ <i>Xanthomonas vesicatoria</i> ATCC 35937] >gb EEGD11138.1	36.2	60%	1.3
NP_636443.1	DNA methylase [ <i>Xanthomonas campestris</i> pv. <i>campestris</i> str ATCC 33913] >gb AAM40367.1	35.8	60%	1.8
ZP_02389774.1	putative modification methylase [ <i>Burkholderia thailandensis</i> Bt4]	35.4	60%	2.5
ZP_02353897.1	putative modification methylase [ <i>Burkholderia oklahomenensis</i> EO147]	35.4	60%	2.5
YP_703251.1	aspartate aminotransferase [ <i>Rhodococo justii</i> RHA1] >gb ABG95093.1	35	36%	3.0
NP_881682.1	putative modification methylase [ <i>Bordetella pertussis</i> Tohama I] >emb CAE43384.1	34.3	60%	6.1
YP_002780024.1	aspartate aminotransferase [ <i>Rhodococo opacus</i> B4] >dbj BAH51079.1	33.9	36%	7.9