

Table S1. Identification of type I and type II protein arginine methyl transferases in *S. mediterranea*

Hs Protein	Smed Homolog	Smed Genome	Human -> Smed TBLASTN E-value	Smed -> Human Reciprocal BLASTP
TypeII				
HsPRMT5	SmedPRMT5	>lcl mk4.002031.05	3.00E-136	3.00E-136
HsPRMT7	SmedPRMT7	>lcl mk4.002889.01	2.00E-77	1.00E-83
HsPRMT9/FBXO11	-	-		
TYPE I				
HsPRMT1	SmedPRMT1A	>lcl mk4.001246.12	2.00E-126	2.00E-126
	SmedPRMT1B	>lcl mk4.005105.01	1.00E-118	1.00E-118
HsPRMT3	SmedPRMT3	>lcl mk4.001683.06	6.00E-56	1.00E-86
HsPRMT4/CARM1	SmedPRMT4	>lcl mk4.002107.06	1.00E-124	1.00E-136
HsPRMT6	SmedPRMT6	>lcl mk4.017465.00	2.00E-27	2.00E-43
HsPRMT8	SmedPRMT8	>lcl mk4.019775.00	5.00E-25	1.00E-36
UNKNOWN FUNCTION				
HsPRMT2	-	-		
HsPRMT10			-	
HsPRMT11/FBXO10	-	-		

top hit is Smed 002107
(5.00E-42)
top hit is Smed 005105
(8.00E-90)