

A

ty3_gag	1	-----SFMDQIPGGCNYFKLPVFCLPNCFIQPSLTFRCRN-----	121	EAKLG-ERL--NQRFRKIW-----DRMPFFP-MTAKAAIMTY
Tc_gypsy	1	FIATSQLNKFKYVODANDF-----LO-----ILPEFT-----CNOALLSE	96	CGNLIPLERCTRTQENLNQIYSIYSQVVUTARDALIQ--NSNHLPRVVF
Dm_gypsy1	1	-----EAPPFIRVYKPVDTIGLVR-----CDETLDD-----AVK	119	GGSLTLQYEDVEVKKLTITLNKATMSYEASA--KVLCE--KFRDDARVVF
Sc_ARC2	1	-----KSKGCFAN-----CPTRF-----GQR	98	GGDSQIDDF-----ICNKAAL-----KRFPEGR-RDCECEDFI
Dm_ARC2	1	-----GFSFN-----CTVRF-----GOR	95	GSYDVIDS-----ICKQAL-----KRFPEGR-RDCECEDFI
Ds_ARC2	1	-----GFSFN-----CAVRF-----GOR	95	CAHGVIDS-----VCKQAL-----KRFPEGR-RDCECEDFI
Dm_ARC1	1	-----CNFSA-----CTHSF-----GTR	95	DDHDIDDF-----VIQKRAL-----KRFPEGR-RDCECEDFI
Ds_ARC1	1	-----GFSFA-----CTHSF-----GTR	95	GDHDIDDF-----VVKRAL-----KRFPSDR-RDCECEDFI
Sc_ARC1	1	-----GFSFN-----CSSRF-----GSS	94	GDSTALDF-----VCKQAL-----KRFPSDR-RDCECEDFI
Lh_gypsy11	1	-----CNFSR-----CTSRF-----GSK	94	GSHSVDV-----ICAKAL-----KRFYWPFLGSGQDMV
Dm_gypsy	1	-----FVHFRTFKL-----ETSRF-----SLD	89	GSEHDFTH-----ICNAAL-----LQTYT--ISKMGQDMI
Tc_gypsy26	1	-----FVHFKTPIK-----ETSRF-----SLD	99	GVDSEHRT--AYQVATC-----LRNKP--MTRERIQAA
Cc_gypsy	1	-----FVKL-----DFPSL-----STQ	97	GKQCFEDF--AFHYATC-----LRNRK--MSCEVVGAI
Ac_ARC	1	-----PNVSUSEDA-----PASVFE-----TQV	93	CKGCFEDF--LWRKEDY-----QTYYD--ADCEVIGQY
Hs_ARC	1	GELPGQEPAAEQYQPNVFCEDGQ--PSPGVD--TQI	112	KQCFEDF--LWRKEDY-----QTYYD--ADCEVIGQY
Mm_ARC	1	GELPEQESVEAQYQSGFCEDGQ--PSPGVD--TQI	112	CKQCFEDF--LWRKEDY-----QTYYD--ADCEVIGQY
Lc_gypsy	1	GELPEQESVEAQYQSGFCEDGQ--PSPGVD--TQI	95	CGSCPVDR--VLOWEKY-----KRYPT--ADCEVIVFT
Lc_gypsy2	1	-----INSCAGA-----PIPEFD-----EST	77	CGPCDLSL--VLNWEKY-----RRKHT--ADCEVIVFT

  

ty3_gag	36	DSHKLNSEIMLNMSHISWPNASRIVYCRRL--LNPFAQANDFVQ	155	TRLTKETYNIVRMHKPELKDAMEEAYQTALTERFFFCFELDADGDTI
Tc_gypsy	17	FIATSQLNKFKYVODANDF--ONLLEKSKNKI--KCFAAHIASY	143	LKQNNPLGDTSTROPASLGDARI
Dm_gypsy1	28	-----CFPDNGTGT-----V--SWRQANAAHYMFRKYEDSSRHVQAVVI	167	VSGRRNLDVDFAAKRDMPASDAL
Sc_ARC2	18	DHDAVAVTAVDTKREVEQI--SDKDAKIGLSLFL--NGLTITWIKGV	133	YCLTSLRYQOIPRHEIRFRDLDE
Dm_ARC2	15	DHDAVDEAVAVTAVDTKREVEGI--SDKDAKIGLPLFL--KSTIVVMKGV	130	YCLMOPRYRESIPRHEIKFRDLDR
Ds_ARC2	15	DHDAVDEAVAVTAVDTKREVEGI--SDKDAKIGLPLFL--NNTIVVMKGV	130	YCLMOPRYRESIPRHEIKFRDLDR
Dm_ARC1	15	DHDAVDEAVAVTAVDTKREVEGI--SDENAPKIGLSLFL--YCLASTVMKGV	130	YCLMOPRYRESIPRHEIKFRDLDR
Ds_ARC1	15	DHDAVDEAVAVTAVDTKREVEGI--SDENAPKIGLSLFL--YCLASTVMKGV	130	YCLMOPRYRESIPRHEIKFRDLDR
Sc_ARC1	15	DHDAVDEAVAVTAVDTKREVEGI--SDENAPKIGLSLFL--YCLASTVMKGV	130	YCLMOPRYRESIPRHEIKFRDLDR
Lh_gypsy11	15	TSQVEA--DAIVTKECCNI--SDENAPKIGLSLFL--MDLAAKVMKGV	120	YCLMOPRYRESIPRHEIKFRDLDR
Dm_gypsy	10	NAIVEA--DAIVLQDCCSNV--SDENAPKIGLPLLL--MDLAAKVMKGV	123	YCLMOPRYRESIPRHEIKFRDLDR
Dr_gypsy26	20	GDFPIT--YLRCEDEAVHQL--NDSEISMLSPVL--THHAKDVMKAE	123	YCLMOPRYRESIPRHEIKFRDLDR
Cc_gypsy	14	EDPVV--LHCKE--LAVHPL--GEGEIASLAVF--KCFKDMMAE	137	LRNCPRIASIT--GCTVTVGDEVVRV
Ac_ARC	19	FDFPR--LSHL--ELKQVGG--TEEYV--SQONNM--NCPAKKWEFK	141	LRNCPRLASL--GCTVDVGEVRI
Hs_ARC	34	FDFPR--LSHL--ELKRVGG--SEEYV--SQONNM--NCPAKKWEFK	136	VCTOPKRRFYGFPLKLEOIOR
Mm_ARC	34	FDFPR--LSHL--ELKRVGG--SEEYV--SQONNM--NCPAKKWEFK	146	VCTOPKRRFYRHPLKLEOIOR
Lc_gypsy	17	KRFPK--YGEF--RALQCSL--PESYV--SYDGLS--KCFKTRAYK	129	VCTOPKRRFYRHPLKLEOIOR
Lc_gypsy2	1	--DAK--LFLK--RALQQRGI--FEVCM--DMWEGVL--KCFKTRAYK	149	VEVREPLKRF--MCPLFISLEISR

  

ty3_gag	84	EQGILE-----IGEDTFIQGLYQHGYKPPDINKFNAYITOLS	205	IG-----
Tc_gypsy	62	-----QIT-----NNDLKTALLATYADKRDLOLTIICNLR		
Dm_gypsy1	69	IRSKVGPADAVLSSFGTVLNFDAIISRLDFTYSDKRFIVHVEQVGTLR		
Sc_ARC2	63	RREAR--RDEAMVLLRHH--SFRKRAYQVYLFIFETR		
Dm_ARC2	60	RRDA--RSDALQLLRHH--SFRKRAYQVYLFIFETR		
Ds_ARC2	60	RRDA--RSDALQLLRHH--SFRKRAYQVYLFIFETR		
Dm_ARC1	60	RREAR--RKEAIALIREH--SFRKRAYQVYLFIFONK		
Ds_ARC1	60	RREAR--RNEAIALIREH--SFRKRAYQVYLFIFONK		
Sc_ARC1	60	RREAR--RNDVALLRHH--SFRKRAYQVYLFIFONK		
Lh_gypsy11	59	KSTV--RANADLRLKTYGPKRRAKELGFARE	167	QAEQSGP-----
Dm_gypsy	54	KQTI--SKDAINALRSAYSKVLSPYRVYCFPSKE		
Dr_gypsy26	64	KRRVR--STQPKSVFLQS--LADDHVEVERRRERE		
Cc_gypsy	58	RRNVQ--NRQPKSFLHS--LSEYDDVAARKLERR		
Ac_ARC	63	ODSV--NVEFKKEFLQYSEG--LTRDAKRR--DLP		
Hs_ARC	78	QGSV--NVEFKKEFLQYSEG--LSREAQR--DLP		
Mm_ARC	78	QGSV--NVEFKKEFLQYSEG--LSREAQR--DLP		
Lc_gypsy	61	GCSIT--SNOEFKTEFLTY--DSSQDRAKLRQV--DRL		
Lc_gypsy2	43	AVQLE--DVAQFKKFLXY--DKMLSRTEDECK--DRL	148	GPEAPHRPAISLSMTL

B

