

Figure S2.

LVCR01008418	35550	IPA IENMQLAGHPCKRYVFTINNPESEEDYDAVKDFITPENCVYAIVGEEQVSTLHLQGFV	35729
JPMF01009165	2134	IPA IENMQLAGHPCKRYVFTINNPESEEDYDAVKDFITPENCVYAIVGEEQVSTLHLQGFV	2313
LVCR01005637	76800	IETMQLAGHPCKRYVFTINNPESEEDYDAVKDFITPENCVYAIVGEEQVSTLHLQGFV	76630
JPMF01099474	4867	IKT MQLAGHPCK*YVFTINNPESEEDYDAVKDFITPENCVYAIVGEEQVSTLHLQGFV	5037
JPMF01327854	107	LASFV	121
JPMF01327854	21	KDYTAVKDFIIPENCVYAIVGEEQVSTLHLQALL	122
LVCR01018124	48796	SEEDYNAVKDFITPENCVYAIVGEEQVCVYAIVG	48897
JPMF01003018	2944	SKEDYNAVKDFITPKNCVYAIVGEEQVCVYTI VG	2843
LVCR01008418	35730	NLKKKMRFNPFKAAIGGRAHVEKAKRTDLNKRKRYCSKQKVYLEVGEPSAQGKRLDLKEAI	35909
JPMF01009165	2314	NLKKKMRFNPFKAAIGGRAHVEKAKGTDLDNKRKRYCSKQKVYLEVAEPSAQGKRLDLKEAI	2493
JPMF01024207	6477	TAQEKRSDLKEAI	6515
LVCR01005637	76629	NLKKKMRFNPFKAAV	76585
JPMF01099474	5038	NLKKKMRFNPFKAAV	5082
JPMF01327854	122	NLKKKMRFNPFKAAIGGRAHIEQAKGTNLDNKTYCSKQKLVYQEG	256
AEQU02103080	78	QEKEEFIVVKEMLGGRAHLEKTKGTDLNQT YCCKGGDFIEISESSKLGKRNLDNAV	251
LVCR01008418	35910	ALLNSGSSMTELAQAYPSVYIRYGRGL-----KDYVITAQLTRMRDFKTDVHVITGIPGC	36074
JPMF01009165	2494	ALLNSGSSMTELAQAYPSVYIRYGRGL-----KDYVITAQLARMRDFKTDVHVITGIPGC	2658
JPMF01192303	58	AQLTKMRDFKTEVHVIMGIPRC	123
LVCR01015089	21904	AQLAKMRDFKTEVHVITGIPGC	21839
JPMF01024207	6516	ALLNSGSSMTELARAYPSVYIRYGMGL-----IDYVITAQLAKMRDFKTDVHVITGIPGC	6680
AEQU02103080	252	EQLH	263
AEQU02103080	266	NLTEVAHEYPATFIKYGHALVCTYVRYVI	355
LVCR01008418	36075	GKSKFCSELDGDKYWKPRGKWWDG YTGQEI--VILDD-FYGWL-P----FDELLRCDRY	36230
JPMF01009165	2659	GKSKFYSELDGDKYWKPRGKWWDG YTGQEI--VILDD-FYGWL-P----FDKLLRCDRY	2814
JPMF01192303	124	GKSKFCNELEGEKYWKPRGKWWDG YTGQEI--VILDD-YYGWL-P----FDELLRCDRY	279
LVCR01015089	21838	GKSKFCNELEGEKYWKPRGKWWDG YTGQEI--VILDD-YYGWL-P----FDELLRCDRY	21683
JPMF01024207	6681	GKSKFCSELDGDKYWKPHGKWWDG YTGQEI--VILDD-FYGWI-P----FDELLRCDRY	6836
LVCR01091779	7273	LLNLCLRV	7296
BCNE02020765	4847	DD-FYGWLLP----FDELLRVCDRY	4906
BCNE02020767	1611	DD-FYGWLLP----FDELLRVCDRY	1670
BCNE02075733	4046	WDGYFGQKV--AITDDFFYGWI-PRMNCWD*GINI---H	4144
LVCR01061408	7929	WDGYSGQKV--AITDDFFYGLD-T----TDEL*GLTDKY	8024
AZIM01004063	27509	WDGYSGQKVGNKYMI F-LKKWLD T----TDESLGLMDKY	27610
LVCR01008418	36231	PYRVET---KDGTFEVS KCIYITSNKPVKWEYDEDIHT---ET	36344
JPMF01009165	2815	PYRVET---KGGTMEFVSKCIYITSKQ	2886
JPMF01223472	1153	RVET---KGGTVEFVSKSIYITSNKPVKWEYSEYCL---EALFRRITSYKIMRKGE G	998
JPMF01192303	280	PYRVET---KGGTVEFVSKTIYITSNKPVKWEYNEEYCL---EALFRRITSYKIMRKGE G	441
LVCR01015089	21682	PYRVET---KGGTIEFVSKTIYITSNKPVKWEYNEEYCL---EALFRRITSYKIMRKGE G	21521
JPMF01024207	6837	SYRVET---KGGTMEFVSKSI	6890
LVCR01091779	7297	YISLQTNL*KSGIVRSIVLRHCL EESLHTK*EKEKGCLIKCQLYFQSIVKYIHMEK---	7467
LVCR01091779	7251	RVET---KGGTVEFVSKSIYITSNKPVKWEYSEYCL---EALFRRITSYKIMRKGE G	7406
BCNE02045840	57610	IRRITSYKIMRKGE G	57566
BCNE02020765	4908	PTELRF---RGATMEFVSKKIYITSNKPVKWEYGE EECM---QALFRRITTYQIMTTGEG	5069
BCNE02020765	4907	PYRVET---KGGN	4936
BCNE02020767	1672	PTELRF---RGATMEFVSTKIYITSNKPVKWEYGE EECM---QALFRRITTYQIM-TTEG	1830
BCNE02020767	1671	PYRVET---KGGN	1700
BCNE02075733	4145	LTKWQV---KGSFQEFVSKKI	4198
LVCR01061408	8025	P	8027
AZIM01004063	27611	PPKWQV---QGSFQEFVSKTINCPTN	27679
LVCR01008418	35113	TFWDIHTETKTPVE-	35072
LVCR01008418	36327	DIHTETKTPVE-	36359
JPMF01009165	2909	EDIHTETKTPVE-	2944
JPMF01009165	1715	TFWDIHTETKTPVE-	1674
JPMF01223472	997	MSDKMPTLFPINC*VHTHGKKNFSELNIVCDFY*P*VSNWLGGCETFRNIHAETKTPVEY	818
JPMF01192303	442	MSDKIPTLFPINC*ACV--HGKINSLN*T-*YVIL*VLYWLGSTETFWDIHSSAQ	597
LVCR01015089	21520	MSDKIP	21503
LVCR01015089	21464	KNKFSSELNIVCYLY*P*VLYWLGSTETFWDIHSSAQ	21357
LVCR01091779	7468	-----INSLNIVCDFY*P*VSNWLGGCETFRNIHAETKTPVEY	7581
LVCR01091779	7407	MSDKMPTLFPINC*VHTHGKKNFSEHSM	7490
BCNE02045840	57527	LSTSTW-----KNKLSSELNIVCFE FN*PAVLYRFLQHSALRYIYTESQTPVD-	57390
BCNE02045840	57565	MSDKVP	57548
JPMF01223473	3243	KNKFSSELNIVCDFYK*PVLYWLGSS ETLWNIHTE SKPPVEH	3121
BCNE02020765	5070	LKDKMP	5087
BCNE02020767	1831	LKDKMP	1848
JPMF01156588	204	ARLNIVCYLY*P*VLYWLGST EAF*NIIHAESKSPMEH	314
BCNE02035370	8539	ESQAPV*H	8562
JTLQ01205518	1347	KYKFSELQVVCYFYIP*IGYIIS-----RYIHRQT*PI MG*	1454

LVCR01008418	36448		IIN*LGFGGEVS*VVS*EYPVVS*LVHE	36534
LVCR01008418	35071	-NLVIAVEPELVVFAVWLEED*ARGGGGGCIINHLEFG		34958
LVCR01008418	36360	-NLVIAVEPELVVFAVWLEED*TRGW		36437
JPMF01009165	3033		IIN*LGFGGEVS*VVS*EYPVVS*LVHE	3119
JPMF01009165	2945	-NLVIAVEPELVVFAVWLEEN*TR		3016
JPMF01009165	1673	-NLVIAVEPELVVFAVWLEE-----D*VWGGG		1593
JPMF01223472	817	IS--IFGIEPKLIIFIVWLEEC*FLDCCCALDIRELWFGCEVS*VVSVDVVC**SIHK		644
LVCR01091779	7582	IS--IFGIEPKLIIFIVWLEEC*FLDCCCALDIRELWFGCEVS*VVSVDVVC**SIHK		7755
BCNE02045840	57389	-NVVIIGIDPHLVIFIVGLEK--QRPLWCGFVSNQLWFWGEIS*VVSVEYVVC*SVHK		57219
JPMF01223473	3120	--GVIITI*P*LIIFIIWLEEEGPRG--CGFVLDQLGIGGEVS*VVSVDVVC*PVLK		2953
BCNE02032238	3796	TVEKVGIEPKLVVF*IWLEE--HRSSWCHGVIDQLGFGGEVS*VWSGKDPVVCVGSVHE		3626
JPMF01333966	283		IIN*LGFGGEVS*VVS*EYPVVS*LVHE	197
JPMF01156588	315	--GVIITIKPQLIIFIIWLEEEGPRG--CGLVCYDLGFGG		422
BCNE02035370	8563	--GVIIGVEPELVVLAFLVWLEEH*SR--WGDITISYLLWFWGEVS*VISVEDPIMSCRSIHE		8730
JTLQ01205518	1455	I--ISFRI*PELIIFVIWLKP--FTSWW		1526

LVCR01008418	36535	GVLRG*SGPWGW*VSIKINNSGSSGYFFM*VKKGGQKFNFDLSDSIVIP	36681
JPMF01009165	3120	GVLRG*SGPWGW*VSIKINNSGSSGCFM*VKKGGQKFNFDLSDSIVIP	3266
JPMF01223472	643	WVICCWGGGWCWNIKINNSGSS*VFFL*AQECWEEFNFDLSDSIVIP	497
LVCR01091779	7756	WVICCWGGGWCWNIKINNSDSS*VFFL*AQECWEEFNFDLSDSIVIP	7902
BCNE02045840	57218	RVIWCHGCPWCW*VSIQINDSGAPRGFFM	57132
JPMF01223473	2952	RVIWCSCCSRLW*VAIKINNSGSSGIFFL*AKKCGKKNFHFSDPTVIP	2806
BCNE02032238	3625	WVFR*KGAPW*W*VAFKVNCCSS*GFFM*EQVSWEEFNFDLSDSIVIP	3479
JPMF01333966	196	GVLRG*SGPWGW*VSIKINNSGSSGCFM*VKKGGQKFNFDLSDSIVIP	50
BCNE02035370	8731	WIFSESSAPWCW*VAIKINNSGSS	8802