

Drosophila melanogaster inaF-PA

MASSTLDLGE KPEENDDVRL PKEQQPPAFF ES**KTFRIISI** **FLYLGGISGL**
GMVLALYYLM **FDSS**SMPDIH LKFPVSIQGH PVQKVHEYQ*

Drosophila melanogaster inaF-PB

MSGPSALMAN LADVVEAKD EEI PMPKSNF FFES**KTFRLL** **TLLLYMGGVS**
GMGLTLAVY **LFIWDS**RMPP LPVFKHTHPI G*

Drosophila melanogaster inaF-PC

MANLAKIVNL IESNVKSEVD EVLEEAVRGS TGTGSGSSVR LASSSAPRRS
ACATSYPVPS PQL EEIVFAE PTYTER**RFARY** **FVIVIYLCGL** **CSLGFFLSIY**
HIFFWDSRMP PVYKGQKKGP AFG*

Drosophila melanogaster inaF-PD

MNSKHSSLEE KVKLPPTETI SRCYQPQQSN R**KVIRILTVA** **VYVLCVSLAA**
IMLSLYYIFI **WDP**TIRPFVT KATHCDKIVI PEKIAIRLLN SSEVTAEQFY
KHILEQYRIL SHMQQQRQQL LQRQHLQLQQ LEANNRFQEV FATATI IQAH
PHPHPPREP PKKPLLGPYS PQPGNISHAM GGDQLDAETE QGHMPLILD
SPPVEVTGMG HLKRKTHRGH YKHHRARAGG QKKLSIANSM ASSTPSTTAG
GDASMATAAT LPHGYMDAPL NPAAGTIVQA PQLQLYTSMP IPLILSPSDE
KRPSHHAHGH VHGERRNGAQ SGRRRRTTTA SVSGYEAQTY LNPFLTGELI
FEK*

Drosophila mojavensis inaF-PA

MSEESADPAA DLSDDVRLPK DQPPAAFFES **KTFRLISLVL** **YLGGISGLGM**
VLALYYLIFF **DSG**MPDIHLK FVSIQGPV QKVHEYQ*

Drosophila mojavensis inaF-PB

MSAPTLNLAA IVKEAKDEEI QVPKSNDFFE **SKTFRLLTLV** **LYMGGVSGMG**
LTLAMYYLEFI **WDS**RMPLPI FKHTHPIG*

Drosophila mojavensis inaF-PC

MPAEIPASAN LAKIINIIGS NVREMPSEPA SEPPPAAPRE AISPIGSSRS
VRLASSGTPR RAAICYVPKS PQL EEIVFAE PTCSE**RFARY** **FVLVIYLCGL**
CSLGFFLSIY **HLFFWDS**RMPP PVFKGQKKPP AFG*

Drosophila mojavensis inaF-PD

MNSKVNSLEE KVKLPPTETI SRCYQPQQSN R**KVIRILTVA** **VYVLCVSLAA**

IMLSLYYIFI WDPTIRPFVT KANQCDKIVI PEKIAIRLLN SSEVTAEQFY
KHILEQYRIL NHLQMQRQQF LQKQHLQLQQ LEASNRFQEV FATATIYQAH
QQPRDPLQKS KALQAASSLS SASISSLALA NNSSGSSSRD PFRLEPAVNG
DSSLHHLPLV LDTSPPAEGN IQHVKRKTHR GHYKHRSRA GAKKLAERTG
GATVTVSTAA SEQPTVAAPL GYMDAPLNPA AGTILQOPLQ LYTSMPIPLI
LSPSNGEKRL SHHSHSHAHG ERRGMGGAQA RRRATTATVS GYDAQTYLNP
FLTGELIFEK *

Anopheles gambiae inaF#1 (XP 311045)

MSYTAEKIK LAGEDSKDRL YEAKQN**QKAI** **RILTVAAYVL** **CVSLVAIMLS**
LYYIFFWDPS TNPMQKQTQT IDTLIIPDHL AIRLANRSEV PASRFFHTFY
QHLVQDRVVK IRKEVQISES TNLTCLIELY HQQQQQQQQH RPKGQSPDQ
PLSYQVQAEQ QPGGRASDGP RLHTDEDDGS DDYEQSGNYE LYSNHTTIQL
DADETGPO*

Anopheles gambiae inaF#2 (NW045719)

MDGGGDQKAA EPLYARDAET ADGGMFAKKK EEP**KWVRVIV** **VCIYLFVTSF**
AALLSLYYI **FWTP**KIEPY EDDSPERLTG CDQDD*

Caenorhabditis elegans inaF (NP 505782)

MSQANHLSYS ARMRGRSKQP IYSSDKRAKF TQKDS**QKWIR** **FITVLGYILS**
VSLPAISLSV **YYIYIWD**PGY ITKYPADPIN KTVTIHKSPI LSQKVERDLL
PMATTIEQKV AESKQIDLAS ILQDGLKSME SKERTSSDNG*

Danio rerio inaF (NP_001038855)

MERGKPATYT GDKKAKMAAK TNK**KWVRLAT** **VFAYVLSVSL** **AAIILAIYYS**
LIWKPTSASV SGRSDVLMTT TVMAINTSNI SVSDVSTKVN NTSLVSPKST
QTTYDLSTSQ MHWGDKKGHE GLLDIPATKM KRTDQAGTSA STHIQRKSGL
FSTAEVSHVL KTSVLVAGES SEALLAHGAT SSSKQTVYGS SGHDASKNNG
LVSPTTDQAS WTSYSAGPDV SSLTERGLDL MEGSSALQEE LVTKDTENPI
GV*

Gallus gallus inaF (XP_001232207)

MKEKEAGAER GKPATYTGDK KARMAAKTNK **KWVRLATVLA** **YVLSVSLAAI**
VLAVYYSLIW **QP**VRRGGGGG SSASPPSLPG PAANSSSQPR SAPPQRSAP
PPPPTPPR GSPAGTGGTE LPAPRGAGEG RSAP*

Mus musculus inaF #1 (XP 993763)

MRGSSCVGSG GESPGGTGLS EGPRG**RWLRL** **APVCAYFLCV** **SLAAVLLAVY**
YGLIWPTRP PAGPADPLPS AAAAPCARAA PPAPPPAAPA SCLLGASGGP

RPQPGLPRSR RHSRRPAPGA TRETARRAPG *

Mus musculus inaF#2 (NT 039207)

MKERDAAPAE RGKPATYTGDKKAKMAAKTN **KKWVRLATVF** **AYVLSVSLAA**
IVLAVYYSLI **WQP**VGAGTSG GAVGPPPSGS NTTGPSGTSG VAAGPNTTGS
SRREAPRDAP PLQAARPAPP EPAADSPLAG PLERPRGLDE DEEEAAEEPR
SR

Homo sapiens inaF#1 (EAW57469)

MRRRQLAWGR DHAGGGGAGG GRFRERGGGLR GGGGAWWGRG LCGLRRGAEW
AAGMRGTSCV GGGAESPGBLSEGPRGRW **LRLAPVCAYF** **LCVSLAAVLL**
AVYYGLIWP TRSPAAPAGP QPSAPSPPCA ARPGVPPVPA PAAASLSCLL
GVPGGPRPQL QLPLSRRRRY SDPDRRPSRQ TPRETPEAAE GRRPG

Homo sapiens inaF#2 (XM 373626)

MKERDAAPAE RGKPATYTGDKKAKMAAKTN **KKWVRLATVF** **AYVLSVSLAA**
IVLAVYYSLI **WQP**VGAGTSG GAAGPPPGBS NATGPSGTSG AAAAXPNTTG
SSRREAPRDV PPLQAARPAPPPEPPADSPPA GPLERPRGPD EDEEETAAP
GSR*