

```

1
Mtri_R      ...MYQIVIE TEDGETCR.R MRPSDWISR AEAER.NLLA SCRAG.CATC
MspM_R      ...MYQIVIE TEDGETCSFE CGPSEDVISA GLRQSVILLA SCRAGACATC
Mcap_R      MQRVHTITAV TEDGESLRFE CRSDEDVITA ALRQNIFLMS SCREGGGCATC
T3M_TbuC   ...MKHQITI EGGSAFS..V AADEDTLRLG ALRGGIALPH ECSVGGCGAC
T4M_TmoF   .....MFNI QSDDLHHEFE ADSNDTLLSA ALRAELVFPY ECNSGGCGAC
T2M_TbmF   .....MCNQL TIEPLGRITD VAEGQTLLEDA ALRSGVYIPH ACGHGLCGTC
PH_P5      .....MSYNV TIEPTGEVIE VEDGQTILQA ALRQGVWLPF ACGHGTCCATC
AMO_AmoD   .....MTTI NVQPFSEHYS CEDGESLLDG ALRNSLLKY GCKHGGCGTC
Mcap #
Domain
142 47 50
[-----]

51
Mtri_R      KADCTDGDYE LIDVKVQAVP PDE.EEDGKV LLCRTFPRSD LHLV...PY
MspM_R      KADCTDGDYE LIDVKVQALP PDE.EEDGKV LLCRTFPRSD LHV...PY
Mcap_R      KALCSEGDYD LKGCSVQALP PEE.EEGLV LLCRTYPKTD LEIEL...PY
T3M_TbuC   RFDLLSGLVE SIWPEAPGLS ERDR.KRGKH LACQSRPLGD CTIRVRCDD.
T4M_TmoF   KIELLEGEVS NLWPDAPGLA AREL.RKNRF LACQCKPLSD LKIKVINRA.
T2M_TbmF   KVQVTSGEVD HGAANPLRRS WISSGEEGKT LACCATALSD VCIEADVDD.
PH_P5      KVQVVEGEVD IGEASPFALM DIER.DERKV LACCAIPLSD LVIEADVDA.
AMO_AmoD   KVRLLDGDVE .EPGSSFALT PEDR.ENDVI LACASVPLEP CTIDVEPSGL
Mcap #
Domain
57 80
-----FE2S2-----]

101
Mtri_R      TYDRISFEAI QTNWLAEILA CDRVSSNVVR LVLQR.SRPM AARISLNFVP
MspM_R      TYDRISFQAI QTNWLAEITE CDRVSSNVVR LVLQPLTADG AAPISLNFPL
Mcap_R      THCRISFGEV .GSFEAEVVG LNWSVNTVQ FLLQKRPDEC GNR.GVKFEP
T3M_TbuC   ...TYRPVVS PGRWAAVLQA RRELTPDMSE FTFA.....V HAP..AEFRP
T4M_TmoF   ...EGRASHP PKRFSTRVVS KRFLSDEMFE LRLE.....A EQK..VVFSP
T2M_TbmF   .EPDARASFP CGLWWATVTR IDTLTPTIKG LRLK.....L DQP..IDFQA
PH_P5      .DPD.FLGHF VEDYRGVSA LVDLSPTIKG LHIK.....L DRP..MPFQA
AMO_AmoD   TEEEFFSGDT SREFQTVVGG VEFLTADIAR VRLR.....L EPGEEIAFTA
Mcap #
Domain
142
[---]

151
Mtri_R      GQFVDIEIPG THTRRSYSMA SVAE.D..GQ LEFFIRLLPD GAFSKFLQTE
MspM_R      GQFVDIEIPG THTRRSYSMA SVAE.D..GR LEFFIRLLPD GAFSNYLRTQ
Mcap_R      GQFMDLTIPG TDVSRYSIPA NLPNPE..GR LEFLIRVLPE GRFSDYLRND
T3M_TbuC   GQYALLYPPH APGARAYSMS NLPNAD..GI WQFVIRRVPG GAGSNALFDQ
T4M_TmoF   GQYFMVDVPE L.GTRAYSAA N.PVDG..NT LTLIVKAVPN GKVSCALAN.
T2M_TbmF   GQYVMVEIPG LGQRRAFSMP MPSDGGPCGE IELQVRRVPG AAGTGVLHEQ
PH_P5      GQYVNLALPG IDGTRAFSLA NPP..SRNDE VELHVRLVEG GAATGFIHKQ
AMO_AmoD   GQFVNVEVPG TGLLRTFSLA NAPDDP..SV VELICKLYPD GLFSRFLRDE
Mcap #
Domain
145 153 162
---FAD-----]

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Figure 1-13

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201
Mtri_R AKVGMRVDLR GPAGSFFLHD HGGRSRVFVA GGTGLSPVLS MIRQLGKASD
Mspm_R ARVQQRVALR GPAGSFSLHK .SERPRFFVA GGTGLSPVLS MIRQLHKESD
Mcap_R ARVQVLSVK GPLGVFGLKE RGMAPRYFVA GGTGLAPVVS MVRQMQEWSA
T3M_TbuC VEIGQTVTLD GPYGHHLRD DNARDIVCIA GGSCLAPMLS VARGALAQEG
T4M_TmoF .ETIETLQLD GPYGLSVLKT ADETQSVFIA GSGIAPMVS MVNTLIAQGY
T2M_TbmF LAVGDTLHVT GPYGRFFVRQ SAAKPLMFVA GSGLSSPRS MILDLLEQGC
PH_P5 LKVGDAVELS GPYGFQFFVRD SQAGDLIFIA GSGLSSPQS MILDLLERGD
AMO_AmoD AAPGTPVRVF GPYGLKIRL SH.RPILMTA GSGLAPLLS MLRDLAAKKC
Mcap # 203 222 232
Domain [-----NADH--

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251
Mtri_R PSPATLLFGV TNREELFYVD ELKTLAQSMPTLGVRIAVVN DDGNG..VD
Mspm_R PQPATLFFGV TNYEELFYVD ELKALQHAMP SLDVQIAVNV VSENG..VA
Mcap_R PNETRIYFGV NTEPELFYID ELKSLERSMR NLTVKACVWH PSGDWE..GE
T3M_TbuC AQRVHFFYGG RSQPDLGAMA ALDDL.V.GDN RLALSVVLSA PGPELGWQGP
T4M_TmoF EKPITVFYGS RLEAELEAAE TL..FG.WKE NLKLVVSSS VVGNSEKKYP
T2M_TbmF TLPITLVNGQ RSREELYGHA EFVALADRHP NFSYVPVLSN EPEGSARDGA
PH_P5 TRRITLFOGA RNRAELYNCE LFEELAARHP NFSYVPALNQ ANDDPEWQGF
AMO_AmoD DRPVMFFGA RSVDDLylie EIREIGESLA DFEFIPVLS. ESSPADWHGE
Mcap # 252 259
Domain -----]

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301
Mtri_R KGTVIDLLRA ELEIDLLLGH ARRRRRRETA RSCREDHRDR CPA.WRSD..
Mspm_R KGTVIDLLQD EL..... GRRAEKPDY LCGPPGMIDA AFA.AASSAG
Mcap_R QGSPIDALRE DLE..... .SSDANPDY LCGPPGMIDA ACE.LVRSRG
T3M_TbuC TGFVHAEVER VLVAPL.... .DRFEFY FAGPPMIEA VQALLMHTHR
T4M_TmoF TGYVHEIPE YMEGLL.... .GA.EFY LCGPPMINS VQKLLMIENK
T2M_TbmF RGFVHDAKA HFNGQF.... .AGHKAY LCGPPMVEA AIGALM.QGR
PH_P5 KGFVHDAKA HFDGRF.... .GGQKAY LCGPPMIDA AITTLM.QGR
AMO_AmoD TGMVTDAL.L RWRAEL.... .A.HDVY LCGPPMIDA AVPLLV.ERG
Mcap # 292
Domain

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351
Mtri_R .....FLEK FLASG*.....
Mspm_R VPKEQVYLEK FLASG*.....
Mcap_R IPGEQVFFEK FLPSGAA*..
T3M_TbuC VPFEQMHFDR FV*.....
T4M_TmoF VPFEAIHFDR FF*.....
T2M_TbmF LFEDDIYTEK FLSAADANAR A..QPLFKRV *
PH_P5 LFERDIFMER FYTAADGAGE SRSALFKRI *
AMO_AmoD VRPRNIYYDA FTPAAQVVV *.....
Mcap # 342
Domain

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Figure 1-13