

	1				50
Mtri_Hbeta	MSQPQSSQVT	KRGLTDPERA	AIIAAAVPDH	ALDTQRKYHY	FIQPRWKPLS
MspM_Hbeta	MSQPQSSQVT	KRGLTDPERA	AIIAAAVPDH	ALDTQRKYHY	FIQPRWKRLS
Mcap_Hbeta	MSMLGER...	RRGLTDPEMA	AVILKALPEA	PLDGNNKMGY	FVTPRWKRLT
AMO_AmoA	.....	.....MTE	ATVARPV...	ELEGHRTFTW	FTPARRKP.T
T3M_TbuA2	.....	.....	....MTTQAE	VLKPLKTWSH	LAARRK.PS
T4M_TmoE	.....	.....	.....MSFE	SKKPMRTWSH	LAEMRKK.PS
T2M_TbmB	.....	.....	....MNIDLQ	AREITPLRQT	FAHVARL.IG
PH_P1	.....	.....	....MSVEIK	TNTVDPIRQT	YGNLQRR.FG
	51				100
Mtri_Hbeta	EYEQLSCYAQ	PNPDWIAGGL	DWGDWTQKFH	GGRPSWGNES	TELRTTDWYR
MspM_Hbeta	EYEQLSCYAQ	PNPDWIAGGL	DWGDWTQKFH	GGRPSWGNES	TELRTTDWYR
Mcap_Hbeta	EYEALTVYAQ	PNADWIAGGL	DWGDWTQKFH	GGRPSWGNES	TELRTVDWFK
AMO_AmoA	EYELYTVGQQ	STPD...EW	LHVDWPLRFD	DGRAPWEEES	SAVRTSEWSA
T3M_TbuA2	EYEIVSTNLH	YTTD.NPDA.	PFELDPNFEM	AQWFKRNRNA	SPLTHPDWNA
T4M_TmoE	EYDIVSRKLH	YSTN.NPDS.	PWELSPDSPM	NLWYQYRNA	SPLKHDNWDA
T2M_TbmB	EGKAATRYQE	ATYARSPWR.	TFTIARRGTP	RTSC.TTRAA	AAIRLADCEA
PH_P1	D.KPASRYQE	ASYDIEAVT.	NFHYRPLWDP	QHEL.HDPTR	TAIRMTDWHK
	101				150
Mtri_Hbeta	HRDPARRWHH	PYVKDKSEEA	RYTQRFLAAY	SSEGSIRTID	PYWRDEILNK
MspM_Hbeta	HRDPARRWHA	PYVKDKSEEA	RYTQRFLAAY	SSEGSIRTID	PYWRDEILNK
Mcap_Hbeta	HRDPLRRWHA	PYVKDKAEW	RYTDRFLQGY	SADGQIRAMN	PTWRDEFINR
AMO_AmoA	YRDPHQLWQR	PYVSTCNQDQ	QALARLVFVL	TMGSA..AIT	PIWSQKILAR
T3M_TbuA2	FRDPDELVYR	TYNMLQDGQE	TYVFGLLDQF	SERGHAMLE	RTWAGTLA.R
T4M_TmoE	FTDPDQLVYR	TYNMLQDGQE	SYVQSLFDQF	NEREHDQMVR	EGWEHTMA.R
T2M_TbmB	LKDPDRQFYA	TWTMTRARQQ	EAVEANFQFV	ESRGLASAMG	DALDRDRAL.Q
PH_P1	VTDPDRQFYA	AYVQTRARMQ	EATEHAYGFC	EKRELLSRLP	AELQAKLL.R
Mcap #		100			
	151				200
Mtri_Hbeta	YFGALLYSEY	GLFNAHSSVG	RDCLSDTIRQ	TAVFAALDKV	DNAQMIQMER
MspM_Hbeta	YFGALLYNEY	GLFNAHSSVG	RDCLSDTIRQ	SATFAGLDKV	DNAQMIQMER
Mcap_Hbeta	YWGAFLFNEY	GLFNAHSQGA	REALSDVTRV	SLAFWGFDKI	DIAQMIQLER
AMO_AmoA	SYAAWPFVEY	GLFLSLAYAV	RQAMSDTVQF	SVVFQAVDRM	...RLLQDIV
T3M_TbuA2	LYTPVRYLFH	TLQMG SAYLT	QLAPASTISN	CAAYQTADSL	...RWLTHTA
T4M_TmoE	CYSPLRYLFH	CLQMS SAYVQ	QMAPASTISN	CCILQTADSL	...RWLTHTA
T2M_TbmB	VLLPLRHVAW	GANMNNAVIC	AYGYGTAFTA	PAMFHAMDDL	GIAQLITRLA
PH_P1	CLVPLRHAEI	GANMNSSIA	GDSIAATVTQ	MHIYQAMDRL	GMGQYLSRIG
Mcap #				185	
	201				250
Mtri_Hbeta	LFIAKLVPGF	DAST..DVPK	KIWTTDPIYS	GARATVQEIW	QGVQDWNEIL
MspM_Hbeta	LFIAKLVPGF	DAST..DVPK	KIWTSDPIYA	GARGAVEEIW	QGIQDWNEIL
Mcap_Hbeta	GFLAKIVPGF	DEST..AVPK	AEWTNGEVYK	SARLAVEGLW	QEVFDWNEISA
AMO_AmoA	HHLDDLQESP	EFSD..AGAR	EAWMSDSTLV	PIREVIERI.	AASQDWVEIL
T3M_TbuA2	YRTKELSQTF	SDLGFGTDER	RYWEQDPAWQ	GWRKLVEHAL	.VAWDWAECF
T4M_TmoE	YRTHELSLTY	PDAGLGEHER	ELWEKEPGWQ	GLRELMEKQL	.TAFDWGEAF
T2M_TbmB	.....LTLDE	PA..VLEAGK	LAWLEDPRWQ	GLRRYVEDSF	.VVQDPVELF
PH_P1	.....LLLDG	GTGEALDQAK	AYWLDLDDPIWQ	GLRRYVEDSF	.VIRDWFELG
Mcap #			218	228	240 243

Figure 1-11

	251				300
Mtri_Hbeta	WAGHAVYDAT	FGQFARREFF	QRLATVYGDT	LTPFFTAQSQ	TYFQTTRGAI
MspM_Hbeta	WAGHAVYDAT	FGQFARREFF	QRLATVYGDT	LTPFFTAQSQ	TYFQTTRGAI
Mcap_Hbeta	FSVHAVYDAL	FGQFVRREFF	QRLAPRFGDN	LTPFFINQAA	TYFQIAKQGV
AMO_AmoA	VAGTLVFEPL	VGHLAKAELE	SRRAPMFGDG	TTPAVLASAL	LDSGRHLESV
T3M_TbuA2	VALSLVVRPA	VEEAVLRSLG	EAAAR.HNGDT	LLGLLTDAQL	ADAQRHRRWA
T4M_TmoE	VSLNLVVKPM	IVESIFKPLQ	QQAW.ENNDT	LLPLLIDSQL	KDAERHSRWS
T2M_TbmB	VAQNLALDGL	LYPLIYGHFV	DDHLALQGGT	AVAILTSFMP	EWHDETARWI
PH_P1	LAQNLVLDGL	LQPLMYQRF.	DQWLTEGGG	DVAMLTEFMR	DWYGESTRWV
	301				350
Mtri_Hbeta	DDLFFVYCLAN	DSEFGAHNRT	FLNAWTEHYL	ASSVAALKDF	VGLYAKVEKV
MspM_Hbeta	DDLFFVYCLAN	DPEFGAHNRT	FLNAWTEHYL	ARSVTALKDF	VGIYAKVEKV
Mcap_Hbeta	QDLYYNCLGD	DPEFSDYNRT	VMRNWTGKWL	EPTIAALRDF	MGLFAKL..P
AMO_AmoA	QAL.VRLVCQ	DPVHGDQQA	TVRRWIEEWQ	PRCKAAAQSF	LPTFS.....
T3M_TbuA2	GALVRMAL..	...EQPGNRE	VITGWLAKWE	PLADEAIVAY	CSALPEAPAA
T4M_TmoE	KALVKHAL..	...ENPDNHA	VIEGWIEKWR	PLADRAAEAY	LSMLS.SDIL
T2M_TbmB	DAVIKTMANA	AEPEAAGNRA	LLSQWFSQWA	DRAQAALAPV	AEMALGEHGA
PH_P1	DAMFKTVL..	...AENDANRE	QVQAWLEVWE	PRAYEALLPL	AEEA...TGI
Mcap #		313	320	331	
	351				400
Mtri_Hbeta	AG..ATDSAG	VSEALQRVFG	DWKIDYADKI	GFRVDVDQKV	DAVLAGYKN*
MspM_Hbeta	AG..ATDRAG	VSEALQRVFG	DWKVDYADKI	GFKIDVDEKV	AAVLAGYKN*
Mcap_Hbeta	AG..TTDKEE	ITASLYRVVD	DWIEDYASRI	DFKADRQIV	KAVLAGLK*..
AMO_AmoA	DC..GIDAKE	SANALSRALA	N.....	....QRAAVE	GAGITA*....
T3M_TbuA2	QARATAAVRE	FRHSLGL*..	.....	.....	.....
T4M_TmoE	HAQYLERSTS	LRASILTV*.	.....	.....	.....
T2M_TbmB	AALGEVRRAA	LDARATKLGL	SL*.....	.....	.....
PH_P1	AALDEV.RSA	FATRLQKIGL	KSREE*....	.....	.....

Figure 1-11