

	Cu-binding	HMA1
Mouse1	MEPSVDANSITITVEGMTCISV	VRTIEQQIGKVNGVHHIKVSLEEKSATIIYDPKLTQPKTLQEAIDDMGFDA
Mouse2	MEPSVDANSITITVEGMTCISV	VRTIEQQIGKVNGVHHIKVSLEEKSATIIYDPKLTQPKTLQEAIDDMGFDA
Human1	MDPSMGVNSVTISVEGMTCNSV	VWTIEQQIGKVNGVHHIKVSLEEKSNATIIYDPKLTQPKTLQEAIDDMGFDA
Human2	MDPSMGVNSVTISVEGMTCNSV	VWTIEQQIGKVNGVHHIKVSLEEKSNATIIYDPKLTQPKTLQEAIDDMGFDA
Danio	MALSTNLRCRVTLGVEGMTCGS	VQSIEGRIGGLPGVIHIQVSLQNNATVYDHTQHTPQSIAADIEDMGFESS
Drosophila	-----	-----
All		
All w/D.m.	* *	: *: ***** ** : ** : * : ** * : * : * : * : * : * : * : * : * : * : * : * : * : * : * : * : * : *
All w/H2		

	Cu-binding	HMA2
Mouse1	QQRSAVVTIIPSVVSASQIVELVPDLSLDMGTQEKKS	GACEEHS TPQAGEVLMKMKVEGMTC
Mouse2	QQRSAVVTIIPSVVSASQIVELVPDLSLDMGTQEKKS	GACEEHS TPQAGEVLMKMKVEGMTC
Human1	QKRTVAVTIIPSVVNAQIKELVPELSLDTGTLEKKS	GACEDHSMQAAGEVLMKMKVEGMTC
Human2	QKRTVAVTIIPSVVNAQIKELVPELSLDTGTLEKKS	GACEDHSMQAAGEVLMKMKVEGMTC
Danio	DNQGLAVTFVPSLVSEDQLGEVLKCLAPDTACRPP	PLSPKEGSTSRSFSGVEAVKMRIEGMVLSCTTTIEGKIGKLKRGVEKIKVSLESQEAAVVYLPYIITVDEIVKQIEVAGFKATVKS
Drosophila	-----	-----
All		
All w/D.m.	:::	.* : *
All w/H2		

	Cu-binding	HMA3
Mouse1	QPKYLKLG AIDVERLKNTFPVKSSEGSQQKSPSP	SDSTMF TIEGMHCK
Mouse2	QPKYLKLG AIDVERLKNTFPVKSSEGSQQKSPSP	SDSTMF TIEGMHCK
Human1	QPKYLKLG AIDVERLKNTFPVKSSEGSQQRSPSY	TNDSTAFFIIDGMHCK
Human2	QPKYLKLG AIDVERLKNTFPVKSSEGSQQRSPSY	TNDSTAFFIIDGMHCK
Danio	KPRQLKLSASEVERLLSAPKQTEEKL--SEPPAD	STVTTL FQVGTGMHCNS
Drosophila	-----	-----
All		
All w/D.m.	* : *	: * : *
All w/H2		

	Cu-binding	HMA4
Mouse1	SSLQKMP LNIVSQPLTQEAVININGMTCNS	CVQSIIEGVISKKPGVKSIHVS
Mouse2	SSLQKMP LNIVSQPLTQEAVININGMTCNS	CVQSIIEGVISKKPGVKSIHVS
Human1	SSLQKIP LNIVSQPLTQETVINIDGMTCNS	CVQSIIEGVISKKPGVKSIHVS
Human2	SSLQKIP LNIVSQPLTQETVINIDGMTCNS	CVQSIIEGVISKKPGVKSIHVS
Danio	PGFLQPLVSVAEIHIEGMTCGS	CVQSIIEGTLQKQGVRS
Drosophila	-----	-----
All		
All w/D.m.	.	: * : *
All w/H2		

	Cu-binding	HMA5	Cu-binding	HMA6
Mouse1	MTSVQNKCYIQVSGMTCAS	CVANIERNLRREEG IY SVLVALMAGKAEVRYP	PAVIAEQPRVIAEFIRELGFGA	MVMENAGEGN GILELVVVRG
Mouse2	MTSVQNKCYIQVSGMTCAS	CVANIERNLRREEG IY SVLVALMAGKAEVRYP	PAVIAEQPRVIAEFIRELGFGA	MVMENAGEGN GILELVVVRG
Human1	TPVQDKEEGKNSKCYIQVGTG MTCAS	CVANIERNLRREEG IY SVLVALMAGKAEVRYP	PAVIAEQPMIAEFIRELGFGA	TVIENADEGDG VLELVVVRG
Human2	TPVQDKEEGKNSKCYIQVGTG MTCAS	CVANIERNLRREEG IY SVLVALMAGKAEVRYP	PAVIAEQPMIAEFIRELGFGA	TVIENADEGDG VLELVVVRG
Danio	AESDAEPSTNTISKCFIQIGGMTCAS	CVANIERNLNKNEYGIH SVLVALMAGKAEVRYP	SVIDPLRIAELIRELGFTAT	VMDNYDGS DGSLELVVVRG
Drosophila	SAVAIPVEQELTKCFLHIRGMTCAS	CVAAIEKHCKKIYGLD SILVALLAAKAEVKNAN	VVTAENIAKSITELGFPT	ELIDEPDN GEAEVLEIMGMTCAS
All				
All w/D.m.	.	: * : *		
All w/H2				



