

Supplementary Materials: Does Variation of the Inter-Domain Linker Sequence Modulate the Metal Binding Behaviour of *Helix pomatia* Cd-Metallothionein?

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HpCdMT: wild type *Helix pomatia* CdMT

HpCdMT cDNA sequence (with short linker highlighted in blue): 220pb

TTTATTGGATCCGGAAAAGGAAAAGGAGAAAAGTGCACCTCAGCTTGCAGGAGCGAGCCTTGC
CAGTGTGGGAGCAAGTGCCAGTGTGGGGAAGGCTGTACATGTGCCGCCCTGC **AAGACT**TGCAAC
TGTACCAAGTGATGGTTGCAAGTGCAGGAGTGCACCGGCCAGACTCGTGCAAGTGTGGC
AGCTCGTGCAGCTGCAAGTAACTCGAGAAAA

HpCdMT protein sequence:

MSGKKGKEKCTSACRSEPCQCGSKCQCGEGCTCAAC **KT**CNCTSDGCKCGKECTGPDS
CKCGSSCSCK*

HpCdMcMT: *Helix pomatia* CdMT with the linker of the *M. crenulata* MT

HpCdMcMT cDNA sequence (linker from *Megathura crenulata* highlighted in pink): 237 pb

TTTATTGGATCCGGAAAAGGAAAAGGAGAAAAGTGCACCTCAGCTTGCAGGAGCGAGCCTTGC
CAGTGTGGGAGCAAGTGCCAGTGTGGGGAAGGCTGTACATGTGCCGCCCTGC **GTGAAGACAGAA**
GCCAAAACCACGTGCAACTGTACCAAGTGTGGTTGCAAGTGCAGGAGTGCACCGGCCCA
GACTCGTGCAGTGTGGCAGCTCGTGCAGCTGCAAGTAACTCGAGAAAA

HpCdMcMT protein sequence:

MSGKKGKEKCTSACRSEPCQCGSKCQCGEGCTCAAC **VKTEAKTT**CNCTSDGCKCGKE
CTGPDSCKCGSSCSCK*

HpCdPIMT: *Helix pomatia* CdMT with the linker of the *Ec-1* wheat MT

HpCdPIMT cDNA sequence (linker from the *Ec-1* wheat highlighted in green): 237 pb

TTTATTGGATCCGGAAAAGGAAAAGGAGAAAAGTGCACCTCAGCTTGCAGGAGCGAGCCTTGC
CAGTGTGGGAGCAAGTGCCAGTGTGGGGAAGGCTGTACATGTGCCGCCCTGC **TCGGCCGAGGAGC**
GGCCGGCCGGCCTGCAACTGTACCAAGTGTGGTTGCAAGTGCAGGAGTGCACCGGCCCA
GACTCGTGCAGTGTGGCAGCTCGTGCAGCTGCAAGTAACTCGAGAAAA

HpCdPIMT protein sequence:

MSGKKGKEKCTSACRSEPCQCGSKCQCGEGCTCAAC **SARSGAAA**CNCTSDGCKCGK
ECTGPDSCKCGSSCSCK*

Figure S1. cDNA and protein sequence information of the proteins studied in this work. The constructs HpCdMcMT and HpCdPIMT, in comparison with the HpCdMT wild type form. The cDNA and protein sequence corresponding to the linker segments are colored, and the grey boxes indicate the 5' and 3' restriction sites (*Bam*HI and *Xho*I, respectively) used for cloning into the pGEX-4T-1 plasmid.