

H.sapMT1	MDCSCATGGSCTCTGSCKCKECKCTSKKSCCSCCPMSAKCAQGCICKGASEKCSCCA
H.sapMT2	MDCSCAAGDSCTCAGSCKCKECKCTSKKSCCSCCPVGCAKCAQGCICKGASDKCSCCA
H.sapMT3	MDCPCPSGGSCTCADSKCEGCKCTSKKSCCSCCPAECEKCAKDCVKGEEAKCSCCQ
H.sapMT4	MDCVCMGGICMGDNCKTTCNKTCRKSCCPCCPPGCAKCARCGICKGGSDKCSCCP
B.tauMT1	MDCSCPPTGGSCSCAGSCTCKACRCPSKKSCCSCCPVGCAKCAQGCVCKGASDKCSCCA
B.tauMT2	MDCSCTAGESCTCAGSCKCKDCKCASCKKSCCSCCPVGCAKCAQGCVCKGASDKCSCCA
B.tauMT3	MDCPCPTGGSCTCSDPKCEGCTCASSKKSCCSCCPAECEKCAKDCVKGEGKCSCCQ
B.tauMT4	MDCTCMGGTCACGDNCKTTCSKTKRKSCCPCCPPGCAKCARCGICKGGSDKCSCCP
C.lupMT2	MDCSCAAGGSCTCAGSCKCKECKRCTSKKSCCSCCPVGCAKCAQGCICKGASDKCSCCA
C.lupMT1	MDCSCSTGGSCTCAGSCKCKECKCTSKKSCCSCCPVGCAKCAQGCICKGASDKCSCCA
C.lupMT3	MDCPCPTGGSCTCDGSKCEGCKCTSKKSCCSCCPAECEKCAKDCVKGEGKCSCCQ
C.lupMT4	MDCTCMGGICICGDNCKTTCNKTCRKSCCPCCPPGCAKCAQGCICKGGSDKCSCCA
R.norMT1	MDCSCSTGGSCTSSSGCKNCKCTSKKSCCSCCPVGCSKCAQGCVCKGASDKCTCCA
R.norMT2	MDCSCATDGSCSCAGSCKCKQCKCTSKKSCCSCCPVGCAKCSQGCICKEASDKCSCCA
R.norMT3	MDCPCPTGGSCTCSDKCKKGCKTNKKSCCSCCPAGCEKCAKDCVKGEEGKCSCCQ
R.norMT4	MDCTCMGGICICGDNCKTTCSKTKRKSCCPCCPPGCAKCARCGICKGGSDKCSCCP
G.galMT1	MDCPCATGGTCTCGDNCKKNCKCTSKKGCCSCCPAGCAKCAQGCVCKGPPSKCSCCK
G.galMT2	MDCTCAAGDSCSCAGSCKCKNCRCSRKSCKSCCPAGCNNCAKGCVCKEPASKCSCCH
P.carMT1	MDCPCATGGTCTCGDNCKKNCKCTSKKGCCSCCPAGCAKCAQGCVCKGPPSKCSCCK
P.carMT2	MDCTCAAGDSCSCAGSCKCKNCRCSRKSCKSCCPASCNSCAKGCVCKEPASKCSCCH
A.plaMT2	MDCTCAAGDSCSCAGSCKCKNCRCSRKSCKSCCPAGCNNCAKGCVCKEPASKCSCCH
A.plaMT1	MDCPCATGGTCTCGDNCKKNCKCTSKKGCCSCCPAGCAKCAQGCVCKGPPSKCSCCK
C.chaMT	MDCSCNTGGTCTCAGSCKCKNCKCTSKKSCCSCCPAGCDNCAKGCVCKEPLSKCSCCH
F.parMT	MDCGCATGGSCSCAGSCKCKNCKCTSKKGCCSCCPASCDNCAKGCVCKEPSSKCSCCH
A.fraMT	MDCTCAAGGSCSCAGSCKCKNCKCTSKKSCCSCCPASCNHCAKGICKEPLSKCSCCH
P.barMT	MDCPCATGGTCSAGSCKCKNCKCTSKKGCCSCCPAGCTNCAKGCVCKEPLSKCSCCS
E.quaMT	MDCGCATGSSCSCNGSKCKNCKCTSKKSCCSCCPASCDNCAKGCVKDPSLKSCSCCP
P.sicMT	MDCACATGGSCTCAGSCKCKNCKCTSKKSCCSCCPAGCAKCAKSCVCKEPLSKCSCCT
X.laeMT	MDCKCETGASCSCGTTCSNSNCCTSKKSCCSCCPAECSKCSQGCHCEKGSKKCSCCN
X.troMT	MDCNCETGASCSCANKCVCSNCKCTSKKSCCSCCPAECSKSKGCHCEKESKKCSCCN
A.mexMT	MDCACATGGSCSCAGSCKCENCKCTSKKSCCSCCPSECEKGQGCVCKGGSSKCSCCN
T.carMT	MDCGCASGGSCSCAGSCKCENCKCTSKKSCCSCCPAGCDKGQGCVCKGGSTKSCCCT
R.escMT	MDCGCAAGGSCSCGDCKCKDCKKGCKKSCCSCCPDTCKCSQGCEAKGSDTCSCCK
D.rerMT1	MDCECAKTGACNCGATCKCTNCQCTTCKKSCCSCCPGCSKASGCVCKGNSCGTSCCQ
D.rerMT2	MDCECAKTGTCNCGATCKCTNCQCTTCKKSCCSCCPGCSKASGCVCKGNSCGSSCCQ
C.hamMT1	MDCDCSKSGTCNCGGSCTCTNCCKSKKSCCPCCPSGCTKASGCVCKGKTCDTSCCQ
C.hamMT2	MDCDCSKSGTCNCGGSCTCTNCCKSKKSCCPCCPSGCTKASGCVCKGKTCDTSCCQ
T.berMT1	MDCQCSKSGTCNCGGSCTCTNCCKSKKSCCPCCPSGCTKASGCVCKGKTCDTSCCQ
T.berMT2	MDCECSKSGTCNCGGSCTCTNCCKSKKSCCPCCPSGCTKASGCVCKGKTCDTSCCQ
G.acuMT1	MDCDCSKSGTCNCGGSCTCTNCCKSKKSCCPCCPSGCTKASGCVCKGKTCDTSCCQ
G.acuMT2	MDCDCSKSGTCNCGGSCTCTNCCKSKKSCCPCCPSGCTKASGCVCKGKTCDTSCCQ

Supplementary Figure 1. Alignment of the amino acid sequences of the vertebrates MTs used to inferred the phylogenetic tree shown in Figure 1. The alignment was obtained using the program MUSCLE v3.8 and refined manually by the program Se-AL v20a11. Columns containing gaps were removed.