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Human MATE1 MEAPEEPAPVRGGPEATLEVR-----GSRCLRLSAFREELRALLVLGAPFLVQLMVFLISFISSVFCGHLGKLELDAVTLAIAVI 81
Mouse MATE1 MERTEESAPGGGADAASERR-----GLRCLLLPGFLEELRALLVLGAPFLAQLMMFLISFISSVFCGHLGKLELDAVTLAIAVI 81
Mouse MATE2 MEPAEDSLGATIQPPELVRVPRGSLRILLGLRGALSPDVRREAALVALAGPVFLAQLMIFLISIVSSIFCGHLGKVELDAVTLAVSVV 90

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Human MATE1 NVTGVSVGFGLSSACDTLISQTYGSQNLKHVGVILQRSALVLLCCFPCWALFLNTQHILLFRQDPDVSRLTQTYVTIFIPALPATFLY 171
Mouse MATE1 NVTGISVGHGLSSACDTLISQTYGSQNLKHVGVILRQGTLLILLCCFPCWALFINTEQILLFRQDPDVSRLTQTYVMIFIPALPAAFLY 171
Mouse MATE2 NVTGISVGTGLASACDTLMSQSFGGKLNKRVGIVLQRGITLLILLCCFPCWAIFLNTERLLLLLRQDPDVARLAQVYVMICIPALPAAFLY 180

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Human MATE1 MLQVKYLLNQGIVLPQIVTGVAANLVNALANYVFLHQLHLGVIGSALANLISQYTLALLFLYILGKKLHQATWGGWSLECLQDWSAFLR 261
Mouse MATE1 TLQVKYLLNQGIVLPQIMTGIAANLVNALANYVFLYHLHLGVMGSALANTISQFALAIFFLYILWRRHLHQATWGGWSWECLQDWSAFLR 261
Mouse MATE2 QLQTRYLQSQGIIMPQVIVGIAANVVNVGMNAFLLYALDLGVVGSAWANTTSQFFLSALLFLYVWVKRIHIHTWGGWTRECFQEWSSYTR 270

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Human MATE1 LAIPSMMLMCIEMWAYEVSFSLSGILGMVELGAQSIVYELAIIVYMPAGFSAASVVRVGNALGAGDMEQARKSSTVSLITVLFVAVFS 351
Mouse MATE1 LAIPSMMLMCIEMWAYEVSFSLSGILGMVELGAQSITYELAIIVYMIPSGFSAANVVRVGNALGAGNIDQAKKSSAISLIVTELFAVTEFC 351
Mouse MATE2 LAIPSMFMVCIEMWTFEIGTFLAGLVNVTDELGAQAVIYELASVAYMVPFGFGVAASVVRVGNALGAGNADQARCSCTTVLLCAGVCALLVG 360

E273
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Human MATE1 VLLLCKDHVGYIFTDRDIINLVAQVPIYAVSHLFEALACTSGGVL RSGSNQKVGAIVNTIGYYVGLPIGIALMFATTLGVMGLWSG 441
Mouse MATE1 VLLLCKDLVGYIFTDRDIVALVAQVPIYAVSHLFEGLACTCGGIL RGTGNQKVGAIVNAIGYYVIGLPIGIALMFAAKLGVIGLWSG 441
Mouse MATE2 ILLAALKDVVAYIFTNDKDIISLVSQVMPIFAPFHLFDALAGTCGGVL RGTGKQKIGAVLNTIGYYGFGFPIGVSLMFAAKLGIIGLWAG 450

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Human MATE1 IIICTVFQAVCFGLFIIQLNWKKACQQAQVHANLKVNNVPRSGNSALPQDPLHPGCP-ENLEGILTNDVGKTGEPQSDQQMRQEPLPEH 530
Mouse MATE1 IIICTTCQTTCLAFIARLNWKKACQQAQVHANLKVN---VALNSAVSHEPAHPVCP-ESHGEIMMTDLEKK---RRDSVGPADEPATSF 524
Mouse MATE2 LIVCVSFQAFSYLIYILRTNWSRVAEQAVRAGLKST-----KELIPTPADLPILEREVMGIVLPDIIRP-ESQTGQLVVEENSQCAV

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Human MATE1 PQDGAKLSRKQLVLRRLGLLLGVFLILLVGVILVRFVYRIQ 570
Mouse MATE1 AYP----SKGQQ----- 532
Mouse MATE2 PTVGEVL TGRQLVFYRGMALT VSVAVLIAGIVRVFVNDRG 573
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