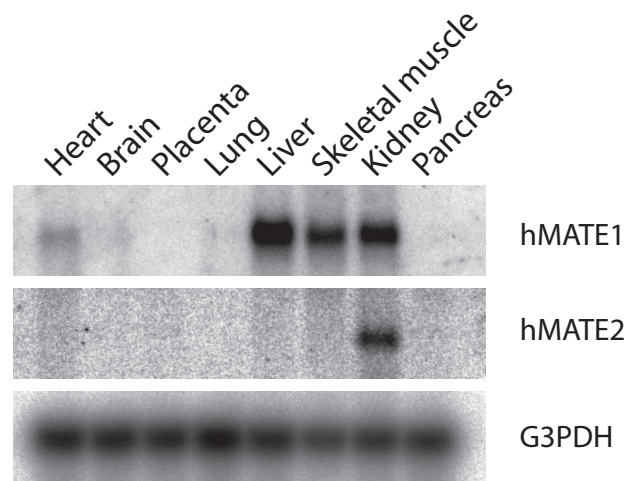
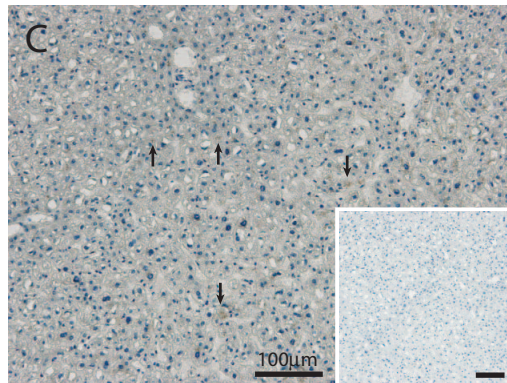
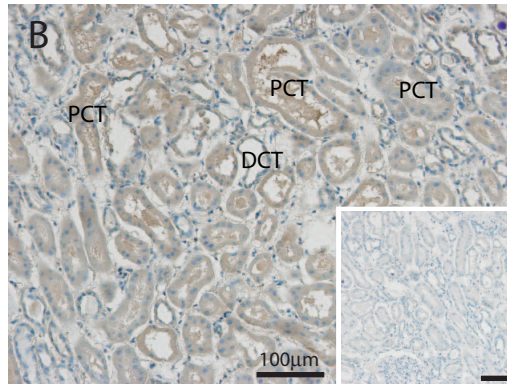
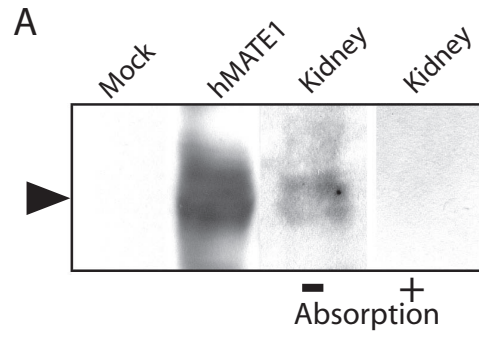


Fig, 1

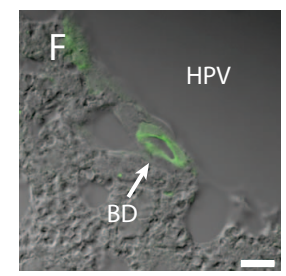
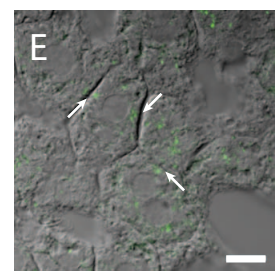
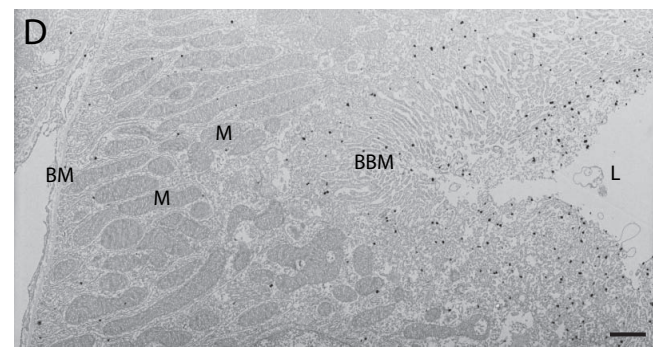
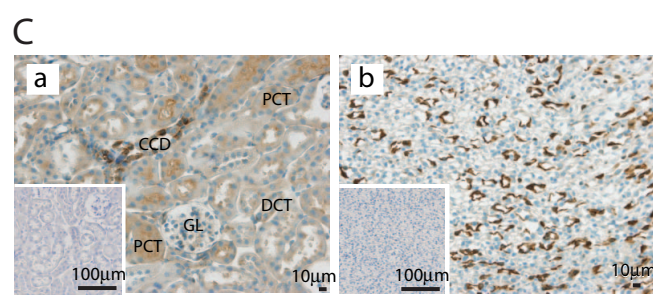
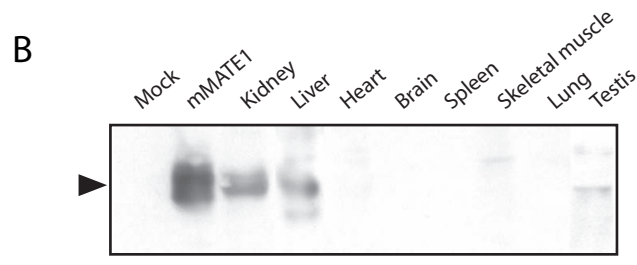
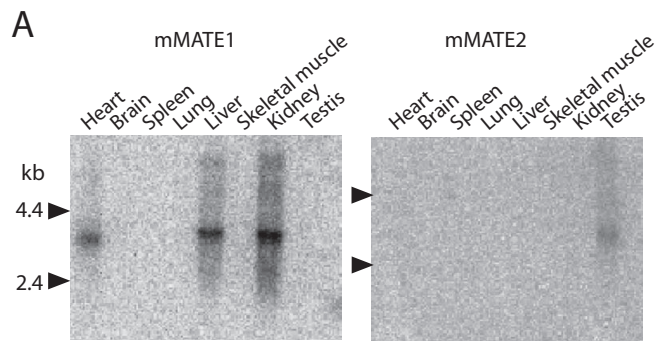




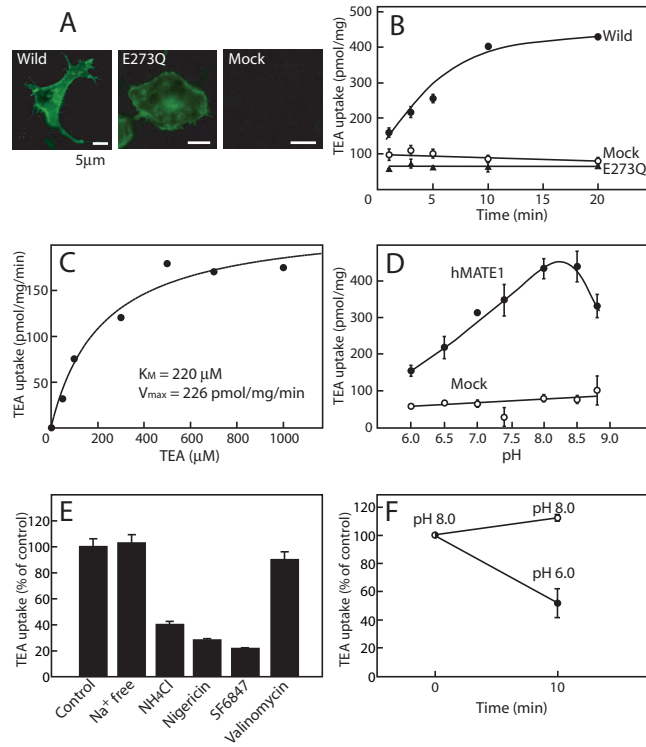
Fig, 3



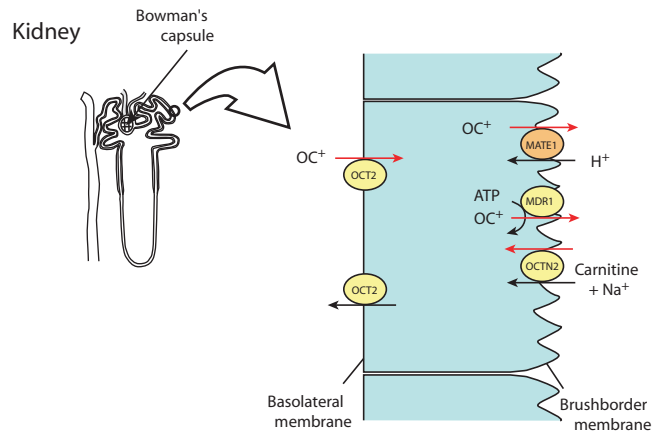
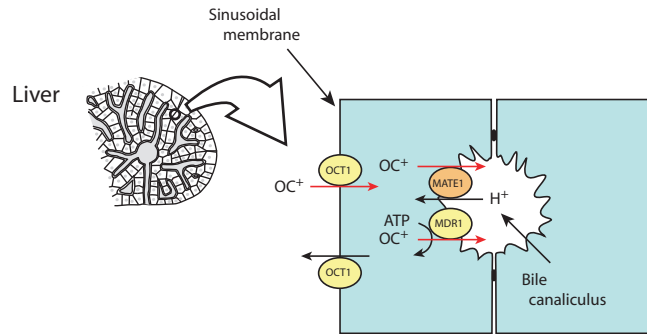
Fig, 4



Fig, 5

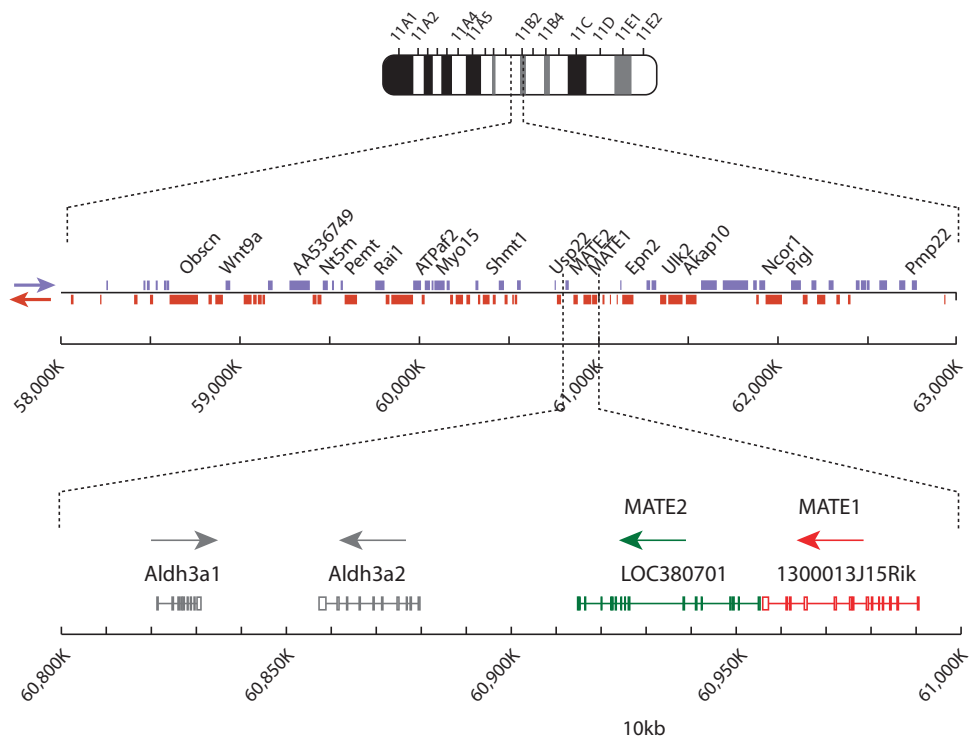


Fig, 6



Fig, 7

# Mouse Chromosome 11





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Human MATE1 MEAPEEPAPVRGGPEATLEVR-----GSRCRLRSAPFREEELRALLVLAGPAFLVQLMVFLISFISSVFCGHLGKLELDAVTLIAVI 81
Mouse MATE1 MERTEESAPGGGADAASERR-----GLRCLLLPGFLEELRALLVLAGPAFLAQLMMFLISFISSVFCGHLGKLELDAVTLIAVI 81
Mouse MATE2 MEPAEDSLGATIQPPELVRVPRGRSLRILLGLRGALSPDVRREAAALVALAGPVFLAQLMIFLISIVSSIFCGHLGKVELDAVTLAVSV 90

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Human MATE1 NVTGVSVGFGLSSACDTLISQTYGSQNLKHVGIVLQRSALVLLCCFPCWALFLNTQHILLLFRQDPDVSRLTQTYVTIFIPALPATFLY 171
Mouse MATE1 NVTGISVGHGLSSACDTLISQTYGSQNLKHVGIVLQRGTLILLCCFPCWALFINTEQILLLFRQDPDVSRLTQTYVMIFIPALPAFLY 171
Mouse MATE2 NVTGISVGTGLASACDTLMSQSFGGKNLKRVGVILQRGILILLCCFPCWAIFLNTERLLLLLRQDPDVARLAQVYVMICIPALPAFLF 180

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Human MATE1 MLQVKYLLNQGI VLPQIVTGVAANLVNALANYLFLHQLHLGVIGSALANLISQYTLALLFLYLILGKKLHQATWGGWSLECLQDWASFLR 261
Mouse MATE1 TLQVKYLLNQGI VLPQIMTGIAANLVNALANYVFLYHLHLGVMGSALANTISQFALAIFLFLYLILWRRLHQATWGGWSWECLQDWASFLR 261
Mouse MATE2 QLQTRYLQSQGIIMPQVIVGIAANVVNVGMNAFLLYALDLGVVGSAAWANTTSQFFLSALLFLYVWWWKRIHIHTWGGWTRECFQEWSSYTR 270

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Human MATE1 LAIPSMMLCMEWWAYEVGSFSLSGILGMVELGAQSIVYELAIIVYMPAGFSVAASVRVGNALGAGDMEQARKSSTVSLITVLFVAFS 351
Mouse MATE1 LAIPSMMLCIEWWAYEVGSFSLSGILGMVELGAQSITYELAIIVYMIPSGFSVAANVRVGNALGAGNIDQAKKSSAISLIVTELFAVTF 351
Mouse MATE2 LAIPSMFMVCI EWWTFEIGTFLAGLVNVTLEGAQAVIYELASVAYMVPFGFGVAASVRVGNALGAGNADQARCSCTTVLLCAGVCALLVG 360

E273
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Human MATE1 VLLLSCDHSVGYIFTTDRDIINLVAQVPIYAVSHLFEALACTSGGVLRGSGNQKVGAVNTIGYVVGLPIGIALMFATTLGVMGLWSG 441
Mouse MATE1 VLLLGCKDLVGYIFTTDRDIVALVAQVPIYAVSHLFEGLACTCGGILRGTGNQKVGAVNVAIGYVVIGLPIGIALMFAAKLGVIGLWSG 441
Mouse MATE2 ILLAALKDVVAYIFTNKDIISLVSQVMPIFAPFHLFDALAGTCGGVLRGTGKQKIGAVLNTIGYVGFPIGVSMLFAAKLGIIGLWAG 450

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Human MATE1 IICTVFQAVCFGLFIIQLNWKKACQQAQVHANLKVNNVPRSGNSALPQDPLHPGCP-ENLEGILTNDVGKGTGEPQSDQQRQEPLPEH 530
Mouse MATE1 IICTTCQTTCLAFIARLNWKRACQQAQVHANLKVN---VALNSAVSHEPAHPVCP-ESHGEIMM TDLEKK---RRDSVGADEPATSF 524
Mouse MATE2 LIVCVSFQAFSYLIYLRTNWSRVAEQAVRAGLKST-----KELIPTADLPILEREVMDGVILPDIIRP-ESQTGQLVVEENSQCAV

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Human MATE1 PQDGAKLSRKQLVLRGLLLLGVFLILLVGI LVRFYVRIQ 570
Mouse MATE1 AYP----SKGQQ----- 532
Mouse MATE2 PTVGEVLTGRQLVfyrgmaltvsvavliagivrvfndrg 573

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