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Product datasheet for RR206237

Tmem63c (NM_001108045) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem63c (NM_001108045) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmem63c
Synonyms:	RGD1310207
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RR206237 representing NM_001108045
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTGCTTCTCCAGAAAGCATGGGCCAAAAGTTTCGAAACATGACGGCAAATGAGTGTTTCCAGTCCC
GGAGCACTGTCCTTCAGGGGCAGCCCTTTGGGGGGATCCCCACTGTGCTCTTACTCAACATCATCTTATG
GGTGTGCGTTGTCTTGGTTTACTCCTTCCTCCGGAAAGCTGCGTGGGACTACGGGCGCCTGGCTCTGCTG
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GGACCTGATCAACAAGTGCGGGGAAGATGCTCGAATTTACATCATGTTCCAGTATCACCTCATCATCTTT
GTGCTCATCCTCTGCATCCCCTCCCTGGGCATCATTTTGCCTGTTAACTACATTGGAAGTGCTCTGGACT
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ACCGGAGCTGAACCTGACCCCCGCCTCCTCCCCAGCCCGGCACACCTATGGCACCATGAACAGCCAGCCA
GAAGAGGGAGAAGAAGAGAGTGGTCTGAGAGGCTTTGCAAGGGAGCTGGACCCAGCCCAGTTCCAGGAAG
GGCTGGAACTAGAGGGCCAGAGCCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206237 representing NM_001108045
Red=Cloning site Green=Tags(s)

MTASPESMGQKFRNMTANECFQSRSTVLQGQPFGGIPTVLLLNIILWVCVVLVYSFLRKAAWDYGRLALL
IHNDSLTSLIYGEQSEKSSPSEVYLEAERRDKGFSTWFFNSLTMRDRDLINKCGEDARIYIMFQYHLIIF
VLILCIPSLGIILPVNYIGSALDWSSHFGRTTIVNVSTESQFLWLHSIFAFMYFLTNFAFMGHHCLGFVP
KKNLHFTRTLMITYVPTEIQDPETISKHFHEAYPGCVVTRVHFCYDVRNLIDLDDQRRHAMRGRLYYTAK
AKKTGKVMIKVHPCSHLCFCKCWTCFKEVDAEQYYSELEEQLTDEFNAELNRVQLKRLDLIFVTFQDART
VKRIHNDYKYINCGRHPMQSSVTTIVKNNHWRVARAPHPKDIIWKHLSIRRFSWWARFIAINTSLFFLFF
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GVFLGKFRIAQQYEQPEEETETVFDVEPSSTTSTPTSLLYVATVLQEPELNLTPASSPARHTYGTMNSQP
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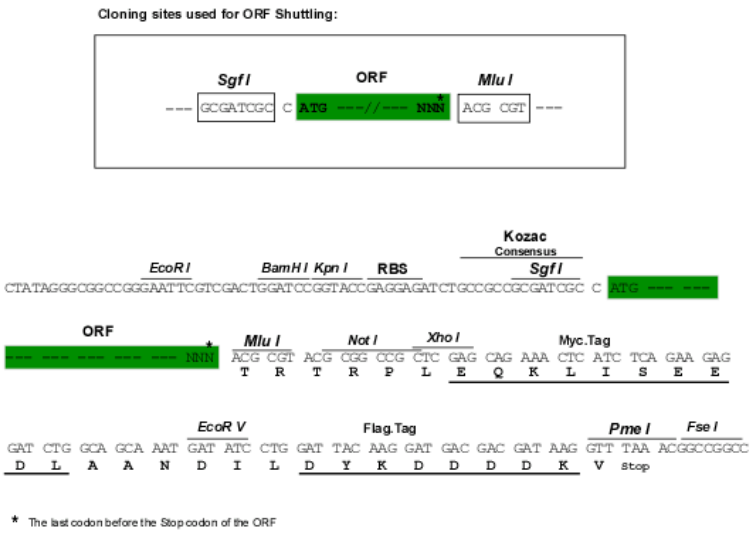
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001108045

ORF Size: 2406 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_001108045.1, NP_001101515.1

RefSeq Size: 3604 bp

RefSeq ORF: 2409 bp

Locus ID: 314332

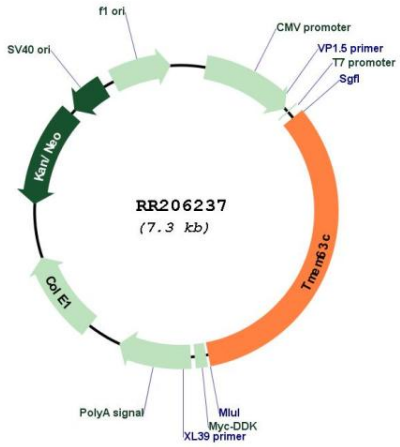
UniProt ID: D3ZNF5

Cytogenetics: 6q31

MW: 93 kDa

Gene Summary: Acts as an osmosensitive calcium-permeable cation channel (By similarity). Required for the functional integrity of the kidney glomerular filtration barrier (PubMed:30900988). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR206237