OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR222768

Tmem266 (NM_172923) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem266 (NM_172923) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmem266
Synonyms:	9630029F15; AI118078; HVRP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR222768 representing NM_172923
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTTTGGTTACATCTTTCAACATGGCCAATCCACAACCTGCCATTGAAGGAGGAATTTCTGAAGTTG
AGATTATCTCCCAACAAGTAGACGAAGAAACCAAGAGCATTGCTCCGGTGCAGCTGGTGAACTTTGCCTA
TCGGGACCTGCCCCTGGCTGCCGTAGACCTCTCCACAGGGGGCTCACAGCTCCTGTCGAATTTGGACGAA
GAGTACCAAAGAGAAGGGTCTGACTGGCTGAAGCCGTGCTGTGGGAAGAGAGCAGCCGTATGGCAGGTAT
TTTTGCTCAGTGCAAGTCTCAACAGTTTCCTGGTAGCCTGTGTAATATTGGTGGTGATCCTCCTGACTCT
GGAGCTTCTCATAGATACAAAGCTTCTCCAGTTTTCCAATGCTTTCCAGTTTGCTGGTGTCATTCACTGG
ATCAGTCTGGTCATTCTCTCTGTGTTCTTCTCAGAGACTGTCCTACGGATCGTGGTACTGGGGATCTGGG
ATTACATCGAAAACAAAATAGAGGTGTTTGACGGGGCTGTGATCATCCTGTCCTTGGCCCCGATGGTGGC
GTCCACTGTGGCTAACGGACCCAGGAGCCCCTGGGATGCCATCAGCCTCATCATCATGTTCCGAATCTGG
CGGGTGAAGAGGGTCATTGATGCCTATGTCCTGCCAGTCAAGTTGGAGATGGAGATGGTCACCCAGCAGT
ATGAGAAGGCCAAGGCCATCCAAGATGAGCAGCTGGAAAGACTGACGCAAATCTGTCAGGAGCAAGGGTT
TGAGATCCGGCAGCTGCGTGCGCACCTGGCACAGCAGGACCTGGATCTGGCAGCCGAGCGGGAGGCGGCG
CTGCAGGCCCCACACGTGCTCAGCCAGCCACGCAGCCGCTACAAGGTCGTAGAGGCTGGCACGTGGGCCG
AGGAGACAGCAGCCGAGAGCATCGTGGAAGAGCTGAGGCCCTCTCAAGAAGCCACAGTGAAAGATGACAT
GAACAGCTACATCAGCCAATACTACAATGGGCCCAGCAGTGACAGTGGAGCCCCAGAACCAGCAGTATGT
GTGGTCACTACAGCTGCCATAGACATCCACCAGCCCAATGTCCCCTCAGACCTCTTCTCAGTCGACCTGC
CTCTGAAGCTCAGTGGCAACAGCACCTGCGCCAGCGCCACCTCGGAGACCACCTCCCACTCTACCTGTGG
CTCAGTCACCAGGGCCCAGAGTGCCAGCAGCCAGACACTGGGTTCCTCCACAGACTGTAGCACCCCCCGG
GAAGAGCTGCTGCCCTCTAAGCCCAGATCTTCTCCCCTGCCACTGCTTCTGCCCCCTCAGCAGCTGGTGG
CAGAGGCCACAGTCCAGGACCTGATGTCCTCTCTGTCAAAGGACCCCTGCCCATCCCATAAGGCCTTGGA
CCCAGCACCCCTGGCCCAGCCTACCCCACTGGGCTCAGTCCAGACCAGCCCTGAGCTGGAGCATAGGGTG
AGTCTGTTCAACCAGAAGAACCAGGAGGCTCTCCCTGTTCTTCAGATCAACCCTGTCATCCACTTGCAGC
CCACAGCGGGGCTGGAGGAGAAGTTCAGATCTTTGGAATCCAAAGAGCCAAAGTTGCATACAGTTCCTGA
GGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222768 representing NM_172923
Red=Cloning site Green=Tags(s)

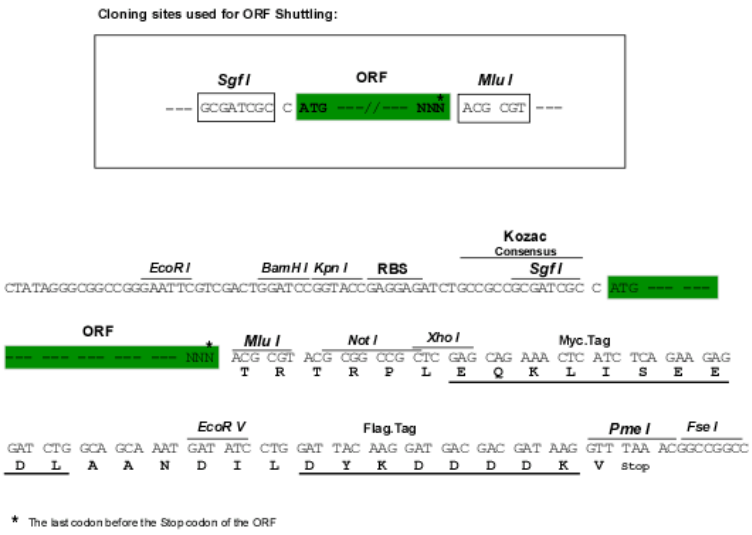
MALVTSFNMANPQPAIEGGISEVEIISQQVDEETKSIAPVQLVNFAYRDLPLAAVDLSTGGSQLLSNLDE
EYQREGSDWLKPCCGKRAAVWQVFLLSASLNSFLVACVILVVILLTLELLIDTKLLQFSNAFQFAGVIHW
ISLVILSVFFSETVLRIVVLGIWDYIENKIEVFDGAVIILSLAPMVASTVANGPRSPWDAISLIIMFRIW
RVKRVIDAYVLPVKLEMEMVTQQYEKAKAIQDEQLERLTQICQEQGFEIRQLRAHLAQQDLDLAAEREAA
LQAPHVLSQPRSRYKVVEAGTWAEETAAESIVEELRPSQEATVKDDMNSYISQYYNGPSSDSGAPEPAVC
VVTTAAIDIHQPNVPSDLFSVDLPLKLSGNSTCASATSETTSHSTCGSVTRAQSASSQTLGSSTDCSTPR
EELLPSKPRSSPLPLLLPPQQLVAEATVQDLMSSLSKDPCPSHKALDPAPLAQPTPLGSVQTSPELEHRV
SLFNQKNQEALPVLQINPVIHLQPTAGLEEKFRSLESKEPKLHTVPEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9030_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172923

ORF Size: 1614 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_172923.4

RefSeq Size: 2407 bp

RefSeq ORF: 1617 bp

Locus ID: 244886

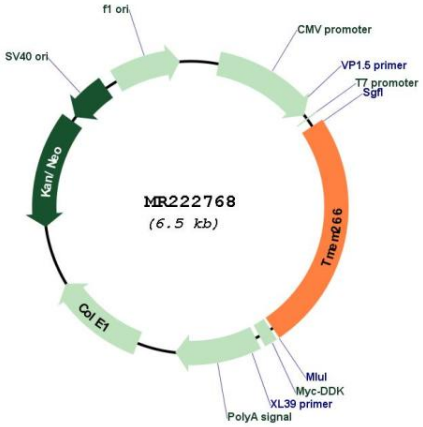
UniProt ID: Q8BZB3

Cytogenetics: 9 B

MW: 59.3 kDa

Gene Summary: Voltage-sensor protein present on the post-synaptic side of glutamatergic mossy fibers and granule cells in the cerebellum. Despite the presence of a voltage-sensor segment, does not form a functional ion channel and its precise role remains unclear. Undergoes both rapid and slow structural rearrangements in response to changes in voltage. Contains a zinc-binding site that can regulate the slow conformational transition.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222768