

Product datasheet for **MR210404**

Tmem2 (BC019745) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem2 (BC019745) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmem2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210404 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCCATGCGTGTAGGAGTGTGGAACTACGTCCTGTGCCTACCACAGATTGCATGGCTGTTTCAACTTTCT
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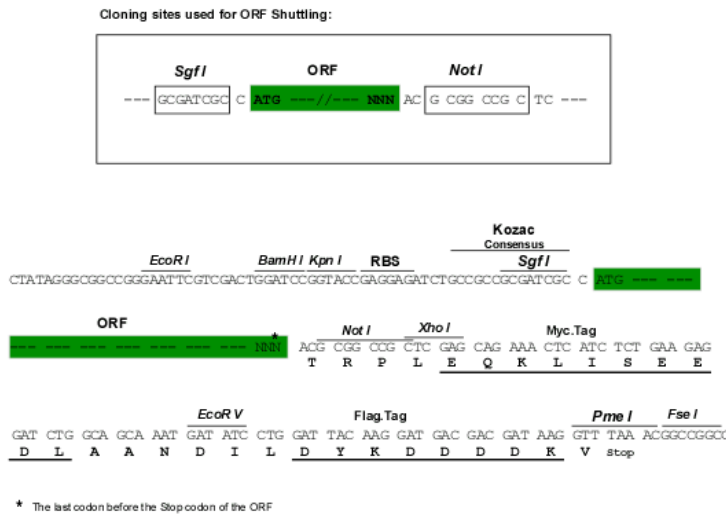
Protein Sequence: >MR210404 protein sequence
 Red=Cloning site Green=Tags(s)

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MRDGVFGNYVPVPTTDCMAVSTFWIAHPNNHLINNAAGSQDAGIYWLFHKEPTGESSGLLLEKPELTP
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NDNGAWVRGGDIIVQNSAFADNGKGLTFASDGSFSPDEGSSQEVTESELFVGESRNYGFQGGQNKYMGTTG
IDQKPRTLPRNRTPFIRGFQIYDGPiHLTKSTFKKYVPTPDRYSSAIGFLMKNSWQTPRNNVSLVKFGP
QVSLNVFFGKPGPFEDCELDGDKNSIFHDIDGSVTGYKDTYVGRMDNYLIRHPNCVNVTKWNAVICSGT
YAQVYVQWTNTPNLSMIITRDEYPSHPMVLRLGINQRAISPQYQPVVMLEKGYTIHWNGPAPRTTFLYLVN
FNKDDWIRVGLCYPANTSFQVTVGFLQRQNGSLRIEDYEPARSMEELQKKPSERKFYFDSGTGLLFLYL
RAHSHRDGHSYCSSQGCERVKIQAATDSKDISNCMAKAYPQYKPSAVKRPAMLTGLCQCGGTHQMVF
TSDPHKSYLPVRFQSPGKAEIQRGDPSIISVNGTDFTFRSAGVLLLVDACSVPFRVKEKRMFLSADVSH
MEEYFKASIPRSIVLLSTRGEIKQLNISDSLALLGLAKPAHLYSKGSVVFLLGFSGNFAPSWTKLFTSPN
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TRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-NotI

Cloning Scheme:



ACCN: BC019745

ORF Size: 2223 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: [BC019745](#), [AAH19745](#)

RefSeq Size: 2374 bp

RefSeq ORF: 2225 bp

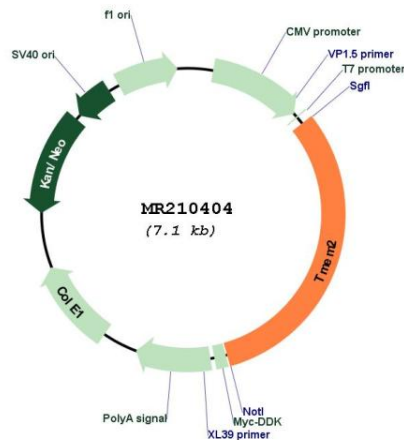
Locus ID: 83921

Cytogenetics: 19 B

MW: 82.8 kDa

Gene Summary: Cell surface hyaluronidase that mediates the initial cleavage of extracellular high-molecular-weight hyaluronan into intermediate-size hyaluronan of approximately 5 kDa fragments (By similarity). Acts as a regulator of angiogenesis and heart morphogenesis by mediating degradation of extracellular hyaluronan, thereby regulating VEGF signaling (By similarity). Is very specific to hyaluronan; not able to cleave chondroitin sulfate or dermatan sulfate (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210404