

Product datasheet for RC214021

TMEM149 (IGFLR1) (NM_024660) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM149 (IGFLR1) (NM_024660) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEM149
Synonyms:	TMEM149
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC214021 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGCCTGGACGATGCCTCCTGACGGCCTTGTGCTTCTGGCCCTGGCGCCACCGCCGGAAGCCTCCC
 AGTACTGCGGCCGCTTGAATACTGGAACCCAGACAACAAGTCTGCAGCAGCTGCCTGCAACGCTTCGG
 GCCGCCCCCTGCCCGGACTATGAGTTCGGGAAAACCTGCGGACTCAATGACCACGGCGATTCGTAACG
 CCCCCGTTCCGAAAGTGTCTTCTGGGCAGTGCAACCCCGACGGCGGGAGCTATGTAGCCCTGCGGCG
 GCGGAGCCGTGACCCCTACTCCCGCCGCGGGCGGGGCGAGAACCCTGGCGCTGCAGAGAGAGGCCGGT
 CCCTGCCAAGGGGCACTGCCCCCTCACACCTGGAACCCAGGCGCCCTAGCTCCAGGAGCGCAGCTCA
 CCAGCAAGTTCATTGCCTGGAGGACCCCTGAGCCTGTCCCTCAGCAGGCTGGCCGAATTCCTTCCGC
 TCGTGGTGCTGGTCTGCTGACCTTGGCGGTGATAGCGATCCTCCTGTTTATTCTGCTCTGGCATCT
 CTGCTGGCCCAAGGAGAAAGCCGACCCCTATCCCTATCCTGGCTTGGTCTGCGGAGTCCCCAACCCAC
 ACCCCTTCTCCTCGCATCTGCTCCTCCCGAGGCGCCCTGGAGACAGGGGACACATGGAAGGAGGCCCTCAC
 TACTTCCACTCCTGAGCAGGGAAGTGTCCAGTCTGGCGTCACAACCCCTGTCTCGCCTCCTGGATGAGCT
 GGAGGTGCTGGAAGAGCTGATTGTAAGTCTGGACCCTGAGCCTGGGCCAGGTGGGGGTATGGCCCATGGC
 ACTACTCGACACCTGGCCGCAAGATATGGGCTGCCTGCTGCCTGGTCCACCTTTGCCTATTCGCTGAGG
 CGAGTCGCTCGCCGCTGCGGGCTCTGATTGAGATGGTGGTGGCAAGGGAGCCCTCTGCCTCCCTGGGCCA
 GCTTGGCACACACCTCGCCAGCTAGGGCGGGCAGATGCATTGCGGGTGTGTCCAAGCTTGGCTCATCT
 GGGGTTTGCTGGGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC214021 protein sequence
 Red=Cloning site Green=Tags(s)

MGPGRCLLTALLLLALAPPEASQYCGRLEYWNPDKCCSSCLQRFPPPCPDYEFRENCGLNDHGDFVT
 PPFRKCSSGQCNPDAELCSPCGGAVTPTAAGGRTPWRCRERPVPAKGHCPLTPGNPGAPSSQERSS
 PASSIAWRTPEVPVQQAWPNFLPLVVLVLLTLAVIAILLFILLWHLCPKEKADPYYPGLVCGVPNTH
 TPSSSHLSSPGALETGDTWKEASLLPLLSRELSSLASQPLSRLLELEVLEELIVLLDPEPGPGGGMAHG
 TTRHLAARYGLPAAWSTFAYSLRPSRPLRALIEMVAREPSASLGQLGTHLAQLGRADALRVLSKLGSS
 GVCWA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6610_e04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024660

ORF Size: 1065 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_024660.4](#)

RefSeq Size: 1217 bp

RefSeq ORF: 1068 bp

Locus ID: 79713

UniProt ID: [Q9H665](#)

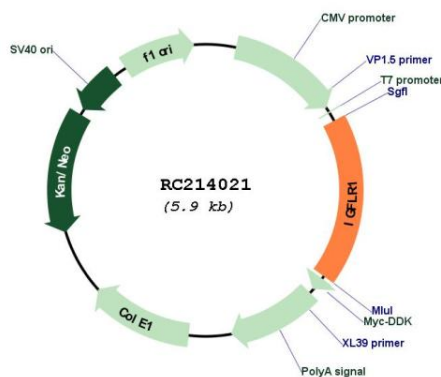
Cytogenetics: 19q13.12

Protein Families: Transmembrane

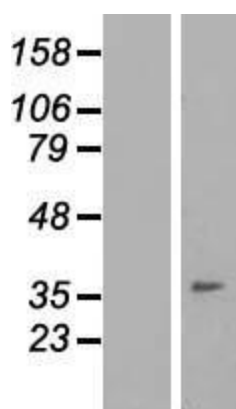
MW: 37.9 kDa

Gene Summary: Probable cell membrane receptor for the IGF-like family proteins. Binds IGFL1 and IGFL3 with a higher affinity. May also bind IGFL2.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC214021



Western blot validation of overexpression lysate (Cat# [LY411176]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214021 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).