

Product datasheet for RC221581

C12orf59 (TMEM52B) (NM_153022) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C12orf59 (TMEM52B) (NM_153022) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C12orf59
Synonyms:	C12orf59
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221581 representing NM_153022 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTCGTGGCGGCCTCAGCCCTGCTGTATTTTCATCCTGTTGCCTGACCACAGACTGGGTACATCTCTGGT
 ATATATGGTTGCTAGTGGTAATTGGCGCGCTGCTTCTCCTGTGTGGCCTGACGTCCCTGTGCTTCCGCTG
 CTGCTGTCTGAGCCGCCAGCAAAATGGGAAGATGGGGGCCACCAACCCTGTGAAGTGACCGTCATTGCT
 TTCGATCAGCAGCACTCTCCAGAGCACTATCACATCTCTGCAGTCGGTGTGGCCCTGCAGCTCGGA
 GGATCCTGGCTGTGGCTCACTCCACAGCTCCCTGGGCCAGCTGCCCTCCTCTTTGGACACCCTCCAGG
 GTATGAAGAAGCTCTTCATGAGTCGCTTCACAGTAGCCATGTGCGGGCAGAAAGCACCTGATCTACCC
 CCAGTACCTGAAGAAAAGCAGCTGCCTCCAACAGAGAAGGAGTCGACTCGAATAGTTGACTCTTGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC221581 representing NM_153022 Red=Cloning site Green=Tags(s)
-------------------	--

MSWRPQCCISSCLTTDWHLWYIWLLVVIGALLLLCGLTSLCFRCCLSRQQNGEDGGPPPCEVTVIA
 FDHDSLQSTITSLQSVFGPAARRILAVASHSSLGQLPSSLDLPGYEEALHMSRFTVMACGQKAPDLP
 PVPEEKQLPPTKESTRIVDSWN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:	https://cdn.origene.com/chromatograms/mk8012_f06.zip
----------------	---


[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153022

ORF Size: 489 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.

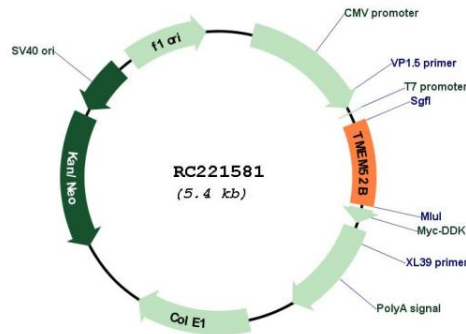
RefSeq: [NM_153022.4](#)

RefSeq Size: 2708 bp

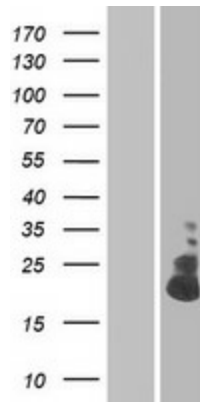
RefSeq ORF: 492 bp

Locus ID: 120939
UniProt ID: [Q4KMG9](#)
Cytogenetics: 12p13.2
Protein Families: Transmembrane
MW: 17.7 kDa

Product images:



Circular map for RC221581



Western blot validation of overexpression lysate (Cat# [LY407200]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221581 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified TMEM52B protein (Cat# [TP321581]). The protein was produced from HEK293T cells transfected with TMEM52B cDNA clone (Cat# RC221581) using MegaTran 2.0 (Cat# [TT210002]).