

Product datasheet for **RG214809**

TMEM120B (NM_001080825) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TMEM120B
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG214809 representing NM_001080825
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTCCGGGCAGCTGGAGCGTTGCGAGCGCAATGGCACGAGCTGGAGGGAGAATTTCAAGAACTGCAGG
AGACGCACAGGATCTACAAGCAGAAGCTGGAGGAGCTGGCTGCGCTGCAGACGCTGTGTAGCAGTTCCAT
CAGTAAGCAGAAGAAGCACCTCAAGGACTTGAAGCTTACACTCCAGAGGTGCAAACGCCATGCCAGTCGG
GAGGAGGCGGAGCTCGTTCAGCAGATGGCAGCGAACATCAAGGAGCGGCAGGACGTCTTCTTCGACATGG
AGGCCTACCTGCCAAGAAGAACGGGCTCTACTGAACCTGGTCTCGGCAATGTGAACGTGACCCTCCT
CAGCAACCAGGCCAAGTTCGCCTACAAGGACGAATATGAGAAGTTCAAGCTCTACCTGACCATCATCCTG
CTCCTGGGTGCCGTGGCATGTCGATTGTCTTCACTACAGGGTGACTGACGAAGTCTTCAACTTCTGCG
TGGTGTGGTATTACTGCACCCTGACCATTCGGGAGAGCATTCTCATCAGCAACGGCTCAAGAATTAAGG
CTGGTGGGTGTCTCACCCTACGTCTCCACATTCTGTCCGGAGTGATGCTGACCTGGCCTAATGGACCC
ATTTATCAGAAGTTTCGCAACCAAGTCTTAGCATTTTCCATTTTTCAGAGCTGCGTCCAGTTCCTGCAAT
ATTATTACCAGAGGGGCTGCCTCTACCGGCTGCGGGCCCTGGGGGAGAGGAACCACTGGATCTCACAGT
GGAAGGGTTCCAGTCCTGGATGTGGCGGGGCTCACCTTTCTCCTGCCCTTCTCTTCTGTGGCCATTTCT
TGGCAGCTCTACAATGCCGTACGCTGTTTGAGCTCTCCAGCCACGAGGAATGCAGAGAATGGCAGGTGT
TCGTAAGGCGTTACCTTCTCATCTCTTCTCGGCAACTTCTGACCACGCTCAAAGTCGTGCATGC
CAAGCTCCAGAAGAACAGAGGCAAGACAAAGCAGCCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG214809 representing NM_001080825

Red=Cloning site Green=Tags(s)

MSGQLERCEREWHELEGEFQELQETHRIYKQKLEELAAQLTLCSSSISKQKKHLKDLKLTQRCKRHASR
EEAELVQQMAANIKERQDVFFDMEAYLPKKNGLYLNVLGNVNTLLSNQAKFAYKDEYEKFKLYLTIIL
LLGAVACRFVLHYRVTDEVFNLLVWYYCTLTIREILISNGSRIKGWVSHHYVSTFLSGVMLTWPNGP
IYQKFRNQFLAFSIFQSCVQFLQYYYQRGCLYRLRALGERNHLDLVEGFQSWMWRLTFLLPFLFCGHF
WQLYNAVTLFELSSHEECREWQVFLAFTFLILFLGNFLTTLKVHAKLQKNRGKTKQP

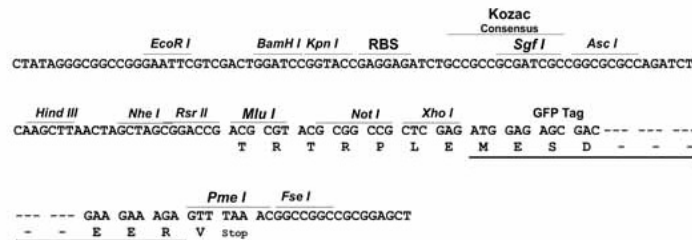
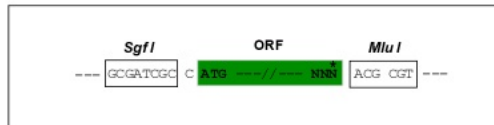
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN:

NM_001080825

ORF Size:

1017 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_001080825.2](#), [NP_001074294.2](#)

RefSeq Size: 1119 bp

RefSeq ORF: 1020 bp

Locus ID: 144404

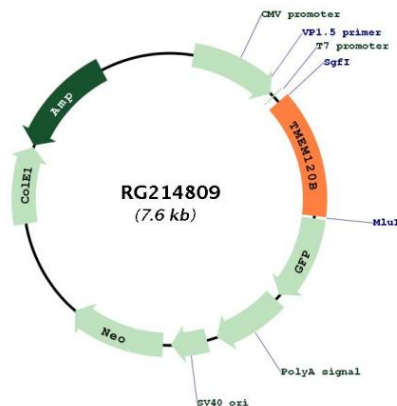
UniProt ID: [A0PK00](#)

Cytogenetics: 12q24.31

Protein Families: Transmembrane

Gene Summary: Necessary for efficient adipogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG214809