

Product datasheet for **MG204130**

Tmem38a (NM_144534) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem38a (NM_144534) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmem38a
Synonyms:	1110001E17Rik; AI413399; mg33a; TRIC-A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204130 representing NM_144534 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACCTGATGTCAGCGCTGAGCCTGGGCGAGCTAGCGCTCAGCTTCTCGCGGGTGCCGCTCTTCCCTG
TTTTCGACCTCAGCTACTTCATCGTCTCCATCATCTACCTGAAGTATGAGCCAGGAGCTGTGGAGCTGTC
CCGGCGCCACCCTGTGGCGTCTGGCTGTGTGCCATGTTGCACTGTTTTGGGAGTTACATCTGGCCGAC
CTGCTTCTGGGAGCCCATATTGACTACTTCAGCAACAGCTCCAGTATCTGCTGGCCTCTGGAGTGT
GGTACTTGATTTTCTTGTCCCTTGGACCTCTTCTACAAGTGTGTCTGCTTTCTGCCCGTAAAACATCAT
CTTTGTGGCTATGAAGGAGGTGGTGAGGGTCCGAAAGATCGCTGTGGGCATCCATCACGCACACCACCAC
TACCACCACGGGTGGTTCATCATGATCGCCACCGGTGGGTCAAAGGGTCTGGTGTGCCCTCCTGTCCA
ACGTGGAACAGTTGCTTCGAGGTGTCTGGAAGCCAGAACTAATGAGATCCTGCACATGTCTTCCCCAC
CAAGGCCAGTCTGTATGGAGCCATCCTGTTACCTTGACAGACTCGCTGGCTCCCAGTGTCCAAGGCC
AGCCTCATTTTCGCTTCCACATGTTTATGGTGTATGTAAGGTGTTCTGACAGCCACACACTCCCACA
GTTCTCCATTTGATATCCTGGAGGGTTACATCTGCCAGTGTGTTGGGCAACTGGGGAGGCGACCA
TCACCATGACAACCATGGAGCACCACATGGCATGGGACTAGGCACCCAGCACTCCGGCTGCCTGCCAAG
GCCAAGGAAGAGCTGGGCGAAGGATCCAGGAAGAAGAAGCAAGAAAGCGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG204130 representing NM_144534
Red=Cloning site Green=Tags(s)

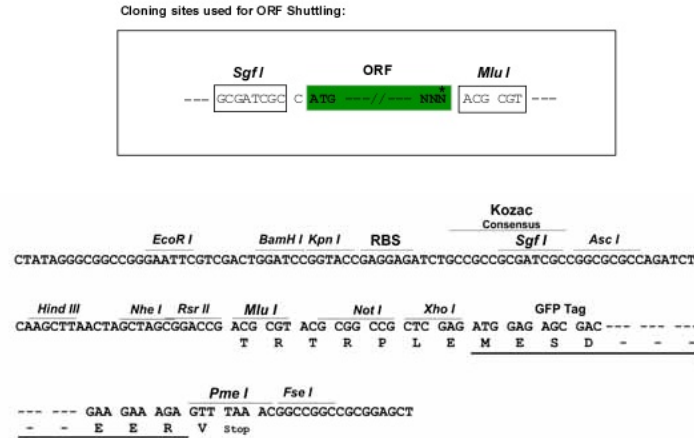
MDLMSALSLGELALSFSRVLPVFDLSYFIVSIIYLYEPGAVELSRRHVPASWLCAMLHCFGSYILAD
 LLLGEPIDYFNSSSILLASGVWYLIFCPLDLFYKCVCFPLVKLIFVAMKEVVRVKIIVGIIHAAHHH
 YHHGWFIMIATGWYKSGVALLSNVEQLLRGVWKPETNEILHMSFPTKASLYGAILFTLQQTRWLPVSKA
 SLIFVFTMFVMSCKVFLTATHSHSSPFDILEGYICPVLFGATWGGDHHHDNHGAPHGMGLGTQHSGLPAK
 AKEELGEGSRKKKTKKAD

TRTRPLE - GFP Tag - V

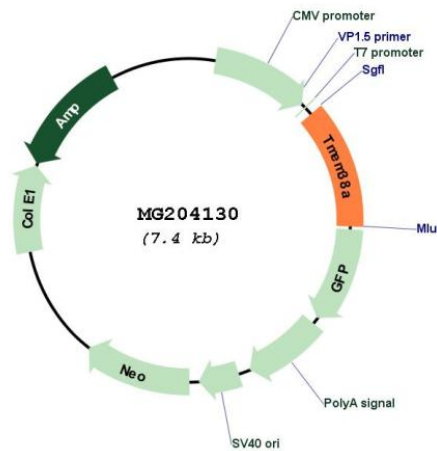
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_144534

ORF Size: 894 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:	<ol style="list-style-type: none">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_144534.2
RefSeq Size:	2109 bp
RefSeq ORF:	897 bp
Locus ID:	74166
UniProt ID:	Q3TMP8
Cytogenetics:	8 B3.3
Gene Summary:	Monovalent cation channel required for maintenance of rapid intracellular calcium release. May act as a potassium counter-ion channel that functions in synchronization with calcium release from intracellular stores.[UniProtKB/Swiss-Prot Function]