

Product datasheet for **MG205146**

Tmem120a (NM_172541) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem120a (NM_172541) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmem120a
Synonyms:	2010310D06Rik; Tmpit
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205146 representing NM_172541 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGTCCCCGCCCCGGACCCGCTGGGCGACTGCCTGCGCAACTGGGAGGATCTGCAGCAGGACTTCC
 AAGGTATCCAGGAAACACATCGCCTGTATCGCTCAAGCTAGAGGAGCTGACCAACTCCAGGCCAACTG
 TACAACTCCATCACACGGCAGAAGAAGCGGCTCCAGGAGCTGGCCTTGGTGCTGAAAAATGCAGACCC
 TCTCTCCATCCGAGTCCATGGAGGCTGCACAGGAGCTGGAAAACAGATGAAAGAGCGCCAAGGCCTCT
 TCTTCGACATGGAAGCCTATCTGCCTAAGAAGAACGGTTGTACCTGAGTCTGGTTCTGGGAATGTCAA
 CGTGACACTTCTGAGCAAGCAGGCTAAGTTCGCTTACAAAGACGAGTACGAGAAATTCAGCTCTACCTC
 ACCATCATCCTCATCGTCATCTCCTTCACTGCCGCTTCTGCTCAACTCCAGGGTGACGGACGCAGCCT
 TCAACTTCCTGTGCTGGTCTGGTATTATTGACAGCTGACCATCCGGGAGAGCATCCTCATCAACAATGGTTC
 CAGGATCAAAGGCTGGTGGGTTTTCCATCATTATGTGTCCACATTCCTGTGAGGAGTCTGCTGACCTGG
 CCAGATGGACTCATGTACCAGAAGTTCGGAACCAAGTTCCTGTCTTTCTCCATGTACCAGAGCTTTGTGC
 AATTCCTGCAGTATTACTATCAGAGCGGGTGCCTGTACCGCTGCGAGCCCTGGGCGAGCGCCATACGAT
 GGATCTCACCGTAGAGGGCTTTCACTCTGGATGTGGAGAGGCCCTCACCTTCTGCTTCCGTTCTCTTTC
 TTTGGACACTTCTGGCAACTCTCAATGCGCTGACATTGTTAACTTGGCCGGGACCCGGAGTGCAAGG
 AGTGGCAGGTGCTCATGTGCGGCTTCCCTTCTCTCTCTTCTCGGCAATTTCTTACCACCCTGCG
 AGTGGTGCATCAGAAGTTCACAGCCAGCAGCACGGGAACAAGAAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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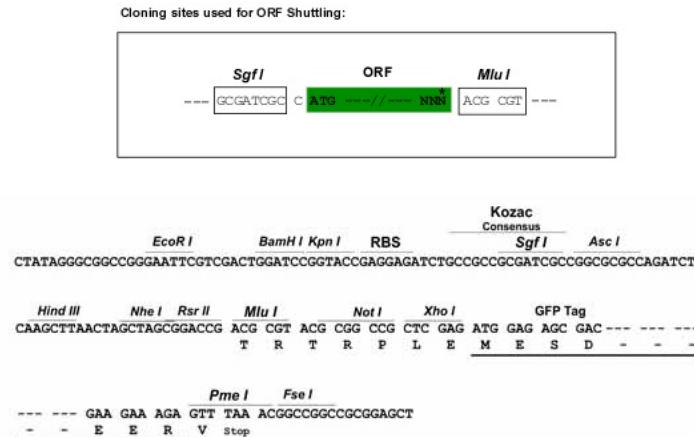
Protein Sequence: >MG205146 representing NM_172541
 Red=Cloning site Green=Tags(s)

MQSPPPDPLGDCLRNWEDLQQDFQGIQETHRLYRLKLEELTKLQANCTNSITRQKKRLQELALVLKKCRP
 SLPSESMEAAQELENQMKERQGLFFDMEAYLPKKNGLYLSLVGNVNTLLSKQAKFAYKDEYEFKLYL
 TIILIVISFTCRFLNLSRVTDAAFNFLVWYYCTLTIREILINNGSRIKGWVVFHHYVSTFLSGVMLTW
 PDGLMYQKFRNQFLSFSMYQSFVQFLQYYYQSGCLYRLRALGERHTMDLVEGFQSWMRGLTFLLPFLF
 FGHFWQLFNALTLFNLARDPECKEQVLMCGFPFLLLFLGNFFTTLRVVHQKFHSQQHGNKKD

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172541

ORF Size: 1029 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_172541.2](#), [NP_766129.1](#)

RefSeq Size: 1278 bp

RefSeq ORF: 1032 bp

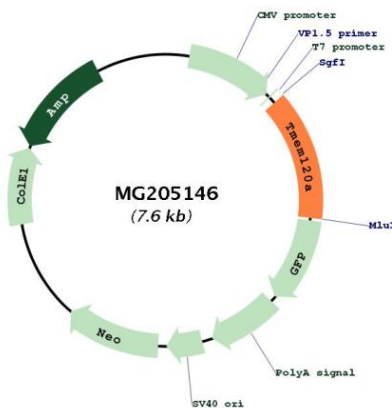
Locus ID: 215210

UniProt ID: [Q8C1E7](#)

Cytogenetics: 5 G2

Gene Summary: Necessary for efficient adipogenesis (PubMed:26024229).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205146