

Product datasheet for **RG204412**

TMEM45A (NM_018004) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TMEM45A
Synonyms:	DERP7; DNATP4
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG204412 representing NM_018004
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGGAAATTCAGAGGTCATGCCCTCCCTGGAACCTTCTTTTTATTATTGGTCTTTGGTGGTGTACAA
AGAGTATTCTGAAGTATATCTGCAAAAAGCAAAAGCGAACCTGCTATCTTGGTTCAAAACATTATTCTA
TCGATTGGAAATTTGGAGGGAATTACAATAGTTGGCATGGCTTTAACTGGCATGGCTGGGGAGCAGTTT
ATTCCTGGAGGGCCCCATCTGATGTTATATGACTATAAACAAGGTCACTGGAATCAACTCCTGGGCTGGC
ATCATTTCACCATGATTTCTTCTTTGGGCTGTTGGGTGTGGCAGATATCTTATGTTTCACCATCAGTTC
ACTTCTGTGTCCTTAACCAAGTTAATGTTGTCAAATGCCTTATTTGTGGAGGCCTTATCTTCTACAAC
CACACTCATGGCCGGGAAATGCTGGACATCTTTGTGCACGAGCTGCTGGTTTTGGTCGTCTTTCTGACAG
GCCTCGTTGCCTTCCTAGAGTTCCTTGTTGGAACAATGTACTTCTGGAGCTATTGCGGTCAAGTCTCAT
TCTGCTTCAGGGGAGCTGGTCTTTTCAGATTGGATTTGCTGTATCCCCCAGTGGAGGTCTGCATGG
GATCTGATGGATCATGAAAATATTTTGTCTCACCATATGCTTTTGTGGCATTATGCAGTAACCATG
TCATCGTTGGAATGAATTATGCTTTTATTACCTGGTTGGTTAAATCTAGACTTAAGAGGCTCTGCTCCTC
AGAAGTTGGACTTCTGAAAAATGCTGAACGAGAACAAGAATCAGAAGAAGAAATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



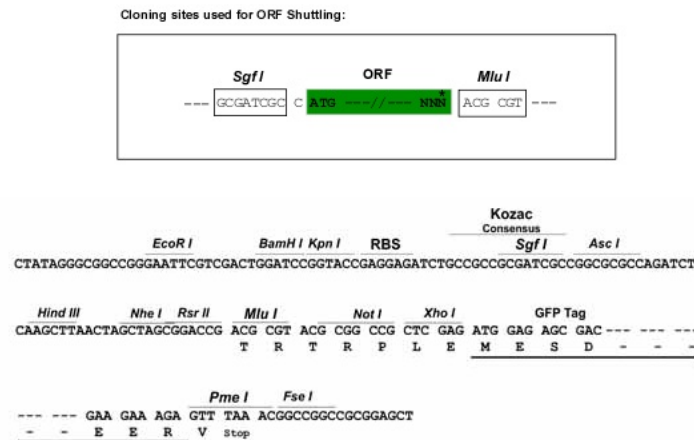
Protein Sequence: >RG204412 representing NM_018004
Red=Cloning site Green=Tags(s)

MGNFRGHALPGTFFFIIGLWWCTKSILKYICKKQKRTCYLGSKTLFYRLEILEGITIVGMALTGMAGEQF
IPGGPHMLYDYKQGHWNQLLGWHHFTMYFFFGLLGVADILCFTISSLPVSLTKMLSNALFVEAFIFYN
HTHGREMLDIFVHQLLVVFLTGLVAFLEFLVRNNVLELLRSSILLQGSWFFQIGFVLPPSGGPAW
DLMDHENILFLTICFCWHYAVTIVIGMNYAFITWLKSRKRLCSSEVGLLKNAEREQESEEEM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018004

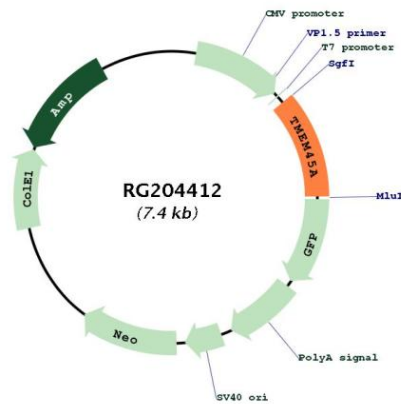
ORF Size: 825 bp

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:	<u>NM_018004.3</u>
RefSeq Size:	1564 bp
RefSeq ORF:	828 bp
Locus ID:	55076
UniProt ID:	<u>Q9NWC5</u>
Cytogenetics:	3q12.2
Protein Families:	Transmembrane

Product images:

Circular map for RG204412