

Product datasheet for **RR210757**

Tmem97 (NM_001008334) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tmem97 (NM_001008334) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tmem97
Synonyms: RGD1307423
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR210757 representing NM_001008334
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGCTGTAAACAGCCAGGCGCTGCGTCGAGTGGCTGCTGGGCTCTACTTCGTCCTCGCACATCCCCA
TCACGATGTTTCATCGACCTGCAGGCGTTGCTGCCGCCGAACCTACCCGCAGGAGTTCAGAACCTGTT
GCGGTGGTACTCTAAGGAGTTCAAAGACCTCTGATGCAGGAGCCCCCTGTGTGGTTCAAGTCCTCCTG
TTTTGTGAGCTTGTGTTCCAGCTGCCTTTCTTTCCATTGCGACATATGCCTTCTCAAAGGAAGCTGCC
GATGGATCCGAATCCCTGCAATCATCTATGCGGTTACACCATAACAACCTTAATCCAATCCTCTATAC
GATTCTCTTTGAGGATTTCTCTAAAGCCATTGCTTTCAAGGGACAAAGACCTGAGAATTTCCGTGAACGA
CTGACCCTCGTAGGTGTCTATGCCCCCTATTTAATAATCCCCCTTATACTCCTCCTGTTTCATGCTTCGGA
ACCCTTACTACAAGTTTGAGGAGAAAAGAAAGAAAAA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR210757 representing NM_001008334
Red=Cloning site Green=Tags(s)

MGAVTARRCVWLLGLYFVSHIPITMFDLQALLPPELYPQEFNLLRWYSKEFKDPLMQEPPVWFKSFL
FCELVFQLPFFPIAAYAFFKGCSCRWIRIPAIYAVHTITLIPILYILFEDFASKAIAFKGQRPENFRER
LTLVGVYAPYLIIPLILLFMLRNPYYKFEEKRKKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

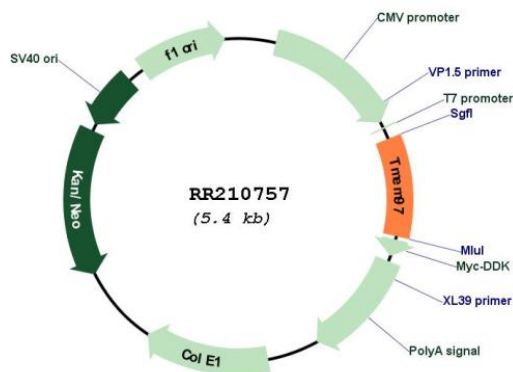
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001008334

ORF Size: 528 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:	<u>NM_001008334.1</u> , <u>NP_001008335.1</u>
RefSeq Size:	1280 bp
RefSeq ORF:	531 bp
Locus ID:	303330
UniProt ID:	<u>Q5U3Y7</u>
Cytogenetics:	10q25
MW:	20.9 kDa
Gene Summary:	Intracellular orphan receptor that binds numerous drugs and which is highly expressed in various proliferating cells. Corresponds to the sigma-2 receptor, which is thought to play important role in regulating cell survival, morphology and differentiation. May play a role as a regulator of cellular cholesterol homeostasis. May function as sterol isomerase. May alter the activity of some cytochrome P450 proteins.[UniProtKB/Swiss-Prot Function]