

Product datasheet for **RG222098**

OXER1 (NM_148962) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: OXER1 (NM_148962) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: OXER1
Synonyms: GPCR; GPR170; TG1019
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG222098 representing NM_148962
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTGTGTACCGTGGTGGCCAGCTGATAGTGCCAATCATCCCACTTTGCCCTGAGCACTCCTGCAGGG
 GTAGAAGACTCCAGAACCTTCTCTCAGGCCCATGGCCCAAGCAGCCCATGGAACCTCATAACCTGAGCTC
 TCCATCTCCCTCTCTCTCCTCTGTTCTCCCTCCCTCTTCTCTCCCTCACCTCCTCTGCTCCCTCT
 GCCTTTACCACTGTGGGGGGTCTCTGGAGGGCCCTGCCACCCACCTTCTCTCGCTGGTGTCTGCCT
 TCCTGGCACCAATCCTGGCCCTGGAGTTTGTCTGGCCCTGGTGGGAACAGTTTGGCCCTTTCATCTT
 CTGCATCCACACGCGGCCCTGGACCTCCAACACGGTGTTCCTGGTCAGCCTGGTGGCCGCTGACTTCCTC
 CTGATCAGCAACCTGCCCTCCGCGTGGACTACTACCTCCTCCATGAGACCTGGCGCTTTGGGGTGTCTG
 CCTGCAAAGTCAACCTTTCATGCTGTCCACCAACCGCACGGCCAGCGTTGTCTTCTCACAGCCATCGC
 ACTCAACCGCTACCTGAAGGTGGTGCAGCCCCACCACGTGCTGAGCCGTGCTTCCGTGGGGGAGCTGCC
 CGGGTGGCCGGGGGACTCTGGTGGCATCCTGCTCCTCAACGGGCACCTGCTCCTGAGCACCTTCTCCG
 GCCCTCCTGCCTCAGCTACAGGGTGGGCACGAAGCCCTCGGCCCTCGCTCCGCTGGCACCAGGCACTGTA
 CCTGCTGGAGTTCTTCTGCCACTGGCGCTCATCTCTTTGCTATTGTGAGCATTGGGCTCACCATCCGG
 AACCGTGGTCTGGGCGGGCAGGAGCCCGCAGAGGGCCATGCGTGTGCTGGCCATGGTGGTGGCCGTG
 ACACCATCTGCTTCTTGGCCAGCATCATCTTTGGCATGGCTTCCATGGTGGCTTTCTGGCTGCTCCGCTG
 CCGCTCCCTGGACCTCTGCACACAGCTTCTCCATGGCTCCCTGGCCTTACCTACCTCAACAGTGTCTG
 GACCCCGTGTCTACTGTTCTCTAGCCCCAATTCTCCACCAGAGCCGGGCTTGTGGGCTCACGC
 GGGGCCGGCAGGGCCAGTGAGCGACGAGAGCTCCTACCAACCCTCCAGGCAGTGGCGCTACCGGGAGGC
 CTCTAGGAAGGGGAGGCCATAGGAAGCTGAAAGTGCAGGGCGAGGTCTCTCTGAAAAGGAAGGCTCC
 TCCAGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222098 representing NM_148962
Red=Cloning site Green=Tags(s)

MLCHRGQLIVPIIPLCPEHSCRGRRLQNLISGPWPQPMELHNLSSPSPSLSSSVLPPSFSPSPSSAPS
 AFTTVGGSSGGPCHPTSSSLVSAFLAPILALEFVLGLVGNLALFIFCIHTRPWTNTVFLVSLVAADFL
 LISNPLRVDYLLHETWRFGAAACKVNLFMLSTNRTASVVFLTAIALNRYLKVVQPHHVLSRASVGAAA
 RVAGGLWVGILLNGLHLLSTFSGPSCLSYRVGTPKPSASLRWHQALYLLEFFLPLALILFAIVSIGLTIR
 NRGLGGQAGPQRAMRVLAMVVAVYTICFLPSIIFGMASVAFWLSACRSLDLCTQLFHGSLAFTYLNLSVL
 DPVLYCFSSPNFLHQSRALLGLTRGRQGPVSDSSYQPSRQWRYREASRKAIAIGLKVQGEVLSLEKEGS
 SQG

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_148962

ORF Size: 1269 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.

RefSeq: [NM_148962.3](#), [NP_683765.1](#)

RefSeq Size: 1820 bp

RefSeq ORF: 1272 bp

Locus ID: 165140

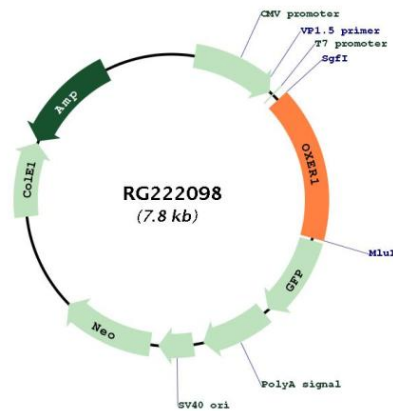
UniProt ID: [Q8TDS5](#)

Cytogenetics: 2p21

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: Receptor for eicosanoids and polyunsaturated fatty acids such as 5-oxo-6E,8Z,11Z,14Z-eicosatetraenoic acid (5-OXO-ETE), 5(S)-hydroperoxy-6E,8Z,11Z,14Z-eicosatetraenoic acid (5(S)-HPETE) and arachidonic acid. Seems to be coupled to the G(i)/G(o), families of heteromeric G proteins.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG222098