

## Product datasheet for **MG224486**

### Osmr (NM\_011019) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | Osmr (NM_011019) Mouse Tagged ORF Clone |
| Tag:                      | TurboGFP                                |
| Symbol:                   | Osmr                                    |
| Synonyms:                 | OSMRB                                   |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-AC-GFP (PS100010)                 |
| E. coli Selection:        | Ampicillin (100 ug/mL)                  |



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**ORF Nucleotide Sequence:**

>MG224486 representing NM\_011019  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTTTCTCTGTGGTCCCTTCATCCAGCCTTCTCTGGCAGTGTCCCTGAGGGCATCCCGAAGCG  
 AAGTCTTGGAGGAGCCTTTACCATTGACTCCTGAGATACATAAAGTTTCTTTTCAATTGAAACTTCAAGA  
 AGTGAATTTAGAATGGACTGTCCAGCCCTTACTCATGAAGAATTAACATGATATTTTCAGATAGAGATC  
 AGTAGACTGAACATATCCAACACCATCTGGGTGGAGAATTATAGCACCCTGTGAAGCGTGAAGAAGCTG  
 TGCGTTGGAAGTGGACGTCTGATATCCCTTTGGAGTGTGTCAAACATTTTATAAAGTCAAGGCTCTGGT  
 AGATGACACCAAGTCCCTCCACAGAGTTCCTGGGGCAACTGGAGTTCCTGAAAAGAAAGTAAATGCAAAAG  
 GTTCCGTTGAACCTGATAAATCATTAAATTTTCTAAAGACAAAGTGTGGAAGAAGGCTCCAATGTCA  
 CCATCTGTCTGATGTATGGCAGAAATGTATATAATGTATCCTGTAAGTTGCAAGATGAGCCAATCCATGG  
 AGAACAACCTTGATTCCCACGTGTCAATTATAAAATTGAACAATGTAGTTTCTTCTAGTGACACAGGGACA  
 AACATCAATTGTCAAGCCACGAAGGGTCCCTAAAAGAATATTTGGTACTGTCTCTTTGTCTCGAAAAGTGC  
 TCGAGGAACCTAAGAATGTTTCTGTGAAACCCGAGACTTTAAGACTTTGGACTGTTTATGGGAACCTGG  
 GGTAGATACGACTTTGACTTTGGCGTAAACAAAGATTCCAAAACACTACACTTTATGTGAATCGTTCTCTAAG  
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 AGTTTCACTCAAAAGGCTCCGCAGGACGTCAACCTTAAAAATATAGGTGCTACAAAAGCCAACATGACTTGG  
 AAGGTTCACTCCCATGGAACAACACTACACACTTTTGTGTGAGTTAACTCCAATATGGAGGAGAAGTGA  
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 GTACAAGGCTTTTGTGCGCTGTGCAAGTCCAACCACTTCTGAAAATGGAGCGACTGGACCCAAAAGAG  
 TTCAGCACACCCGAGACTGCTCCCTCACAGGCTCTTGTATGTATGGAGACAAGTGTGGTCGGAGAATGGAA  
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 TATAGTTGTAGAAAATGAAGCCAAACCAACTGAGTCAGAACACTACTGTGTCTGGGCACCAGCCCTCAGC  
 ACAACCTGAGCCTTGACCTGCAACCTACAAGATTTCGCATCACAGCCAACAACAGCATGGGGGCATCTC  
 CTGAGTCTTGTGCTCCTTTCTAATGATTCTGGACACGAAGAGGTCAAGGAAAAGACAATTAAGGTAT  
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 GCACATCCCAGGACCAACGCTGTGATTTGCAGTGAAGAACCTTGGTCCAATACCACAAGCACCACCA  
 TCACCTCAGATGATTTTAAACCAGGCGTCCGTTACAACCTCAGAATTTTGAAGGTCTGTGGAACACAA  
 AGCTCGGTTAGTAGAAAACAAAGAGGATACACCCAGGAAGTGGTCTCTTGGTGAATCCAAAAGTGGAG  
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 CCTTCCAGATAATTCAGTCTCTGTAATACGACATCAATGGCTCAGAGACAAAGACACTCACCGTGGAA  
 AACCTTCAGCCAGAGTCCCTCTATGAGTTTTTCGTCACCTCCGTACACCAGCGCTGGCCAGGACCAATG  
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 TCCTCAGGCTGTGCCCTGCATCTTCTTTGAGAAATTTACTTACGATCAGTCACTTTTACTCTGGTT  
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 GTTCCAGAACGTATAAAAAATGACTACATGAAGCCCTGGTCAAAAGTCCAACCTGAAGAACTAGCTTG  
 ATTTATGTGTACAGCTGGCTTACCCATGTGCGGAGACAAGGACACGCTTCCACAGAACCACCCGTGC  
 CAGTGCATGGTTCAGAGTATAAAAGGCAATGGTAGTTCCCGGGAGCCTCGCATCACCTTCTCTGAAGGA  
 GGATAACAGCTTGACCTCAACGGTCTCTTAGGCCAAGGTGAACAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224486 representing NM\_011019  
 Red=Cloning site Green=Tags(s)

MAFSVVLHPAFLAVLSLRASRSEVLEEPLPLTPEIHKVSFQKLQEVNLEWTPALTHEELNMIFQIEI  
 SRLNISNTIWVENYSTTVKREEAVRWNWTS DIPLECVKHFIRIRALVDDTKSLPQSSWGNWSSWKEVNAK  
 VSVEPKSLIFPKDKVLEEESNVTICLMYGQNVVNSCKLQDEPIHGEQLDSHVSLKLNNVVFLSDTGT  
 NINCQATKGPKRIFGTVLFVSKVLEEPKNVSCETRDFKTLDCSWEPGVDTLTWRKQRFQNYTLCEFSK  
 RCEVSNYRNSYTWQITEGSQEMYNFTLTAENQLRKRSVNINFNLTWRVHPKAPQDVTLKIIGATKANMTW  
 KVHSHGNNTLLCQVKLQYGGVEIHEHNVSVHMSANYLFSDLDPDTKYKAFVRCASANHFVKWSDWTQKE  
 FSTPETAPSQALDVRQVWSENGRRIVTLFWKPLLKSQANGKIIISYNIIVVENEAKPTESEHYCVWAPALS  
 TNLSDLQPYKIRITANNSMGASPELMLVSNDSGHEEVKEKTIKGIKDAFNISWEPVSGDTMGYVVDWC  
 AHSQDQRCDLQWKNLGPNTTSTTITSDDFKPGVRYNFRIFERSVEHKARLVEKQRYTQELAPLVNPKVE  
 IPYSTPNFVLRWPDYSDSQAGFIKGYLVVYKSKEMQCNQPWERTLLPDNSVLCKYDINGSETKLTVE  
 NLQPESLYEFFVTPYTSAGPGPNETFTKVTPDARSHMLLQIILPMTLCVLLSIIVCYKWSQVWKEKCYP  
 DIPNPYKSSILSLIKSKNPHLIMNVKDCIPDVLEVINKAEGSKTQCVGSGKLIHIEDVPTKPPVIPTEKD  
 SSGPVPCIFFENFTYDQSAFDSGSHGLIPGPKDTHAQLGLLAPPNKFQNVLKNNDYMKPLVESPTTEETSL  
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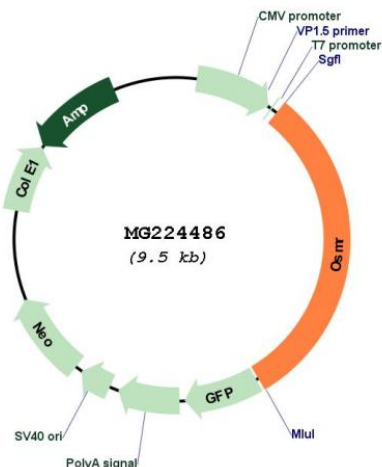
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_011019

**ORF Size:** 2913 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_011019.3](#), [NP\\_035149.2](#)

|               |  |
|---------------|--|
| RefSeq Size:  | 4835 bp  |
| RefSeq ORF:   | 2916 bp  |
| Locus ID:     | 18414  |
| UniProt ID:   | <u><a href="#">O70458</a></u>  |
| Cytogenetics: | 15 3.3 cM  |
| Gene Summary: | Associates with IL31RA to form the IL31 receptor (PubMed:9920829). Binds IL31 to activate STAT3 and possibly STAT1 and STAT5 (By similarity). Capable of transducing OSM-specific signaling events (By similarity).[UniProtKB/Swiss-Prot Function] |