

Product datasheet for **SC315027**

OSMR (NM_003999) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | OSMR (NM_003999) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | OSMR |
| Synonyms: | IL-31R-beta; IL-31RB; OSMRB; OSMRbeta; PLCA1 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_003999 edited
ATGGCTCTATTTGCGAGTCTTTCAGACAACATTCTTCTTAACATTGCTGTCCTTGAGGACT
TACCAGAGTGAAGTCTTGGCTGAACGTTTACCATTGACTCCTGTATCACTTAAAGTTTCC
ACCAATTTACGCGTCAGAGTTTGCACCTTACAATGGACTGTCCACAACCTTCTTATCAT
CAGGAATTGAAAATGGTATTTTCAGATCCAGATCAGTAGGATTGAAACATCCAATGTCATC
TGGGTGGGGAATTACAGCACCAGTGTGAAGTGAACAGGTTCTGCATTGGAGCTGGGAA
TCTGAGCTCCCTTTGGAATGTGCCACACACTTTGTAAGAATAAAGAGTTTGGTGGACGAT
GCCAAGTTCCTGAGCCAAATTTCTGGAGCAACTGGAGTTCCTGGGAGGAAGTCAGTGTA
CAAGATTCTACTGGACAGGATATATTGTTCTGTTTTCCCTAAAGATAAGCTGGTGGAAAGAA
GGCACCAATGTTACCATTGTTACGTTTTCTAGGAACATTCAAAATAATGTATCCTGTTAT
TTGGAAGGAAAACAGATTCATGGAGAACAATTGATCCACATGTAACGTCATTCAACTTG
AATAGTGTGCCTTTCATTAGGAATAAAGGGACAAATATCTATTGTGAGGCAAGTCAAGGA
AATGTCAGTGAAGGCATGAAAGGCATCGTCTTTTTGTCTCAAAAGTACTTGAGGAGCCC
AAGGACTTTTCTGTGAAACCGAGGACTTCAAGACTTTGCACTGTAAGTGGGATCCTGGG
ACGGACTGCCTTGGGGTGGTCTAAACAACCTTCCCAAAGCTACACTTTATTTGAATCA
TTTTCTGGGAAAAGAACTTTGTACACACAAAACCTGGTGTAATTGGCAAATAACTCAA
GACTCACAAAGAACTATAAATTCACTCATAGCTGAAAATTACTTAAGGAAGAGAAGT
GTCAATATCCTTTTAACTGACTCATCGAGTTTATTTAATGAATCCTTTTAGTGTCAAC
TTTGAAAATGTAATGCCACAAATGCCATCATGACCTGGAAGGTGCACTCCATAAGGAAT
AATTTACATATTTGTGTGAGATTGAACTCCATGGTGAAGGAAAATGATGCAATACAAT
GTTTCCATCAAGGTGAACGGTGAAGTACTTCTTAAGTGAAGTGAACCTGCCACAGAGTAC
ATGGCGCGAGTACGGTGTGCTGATGCCAGCCACTTCTGGAATGGAGTGAATGGAGTGGT
CAGAATTCACCACACTGAAGTGTCTCCCTCAGAGGCCCTGATGTCTGGAGAATTGTG
AGCTTGGAGCCAGGAAATCATACTGTGACCTTATTCTGGAAGCCATTATCAAAACTGCAT
GCCAATGGAAGATCCTGTTCTATAATGTAGTTGTAGAAAACCTAGACAAACCATCCAGT
TCAGAGCTCCATTCCATTCCAGCACCAGCCAACAGCACAAAACCTAATCCTTGACAGGTGT
TCCTACCAAACTGCGTCATAGCCAACAACAGTGTGGGTGCTTCTCCTGCTTCTGTAATA
GTCATCTCTGCAGACCCCGAAAACAAAGAGGTTGAGGAAGAAAGAATTGCAGGCACAGAG
GGTGGATTCTCTGTCTTGGAAACCCCAACCTGGAGATGTTATAGGCTATGTTGTGGAC
TGGTGTGACCATACCCAGGATGTGCTCGGTGATTTCCAGTGAAGAAATGTAGTCCCAAT
ACCACAAGCACAGTCATTAGCACAGATGCTTTTAGGCCAGGAGTTCGATATGACTTCAGA
ATTTATGGGTTATCTACAAAAGGATTGCTTGTATTAGAGAAAAAACAGGATACTCT
CAGGAACTTGCTCCTTCAGACAACCTCACGTGCTGGTGGATACATTGACATCCCACTCC
TTCACTCTGAGTTGAAAAGATTACTCTACTGAATCTCAACCTGGTTTTATACAAGGGTAC
CATGTCTATCTGAAATCCAAGGCGAGGCAGTGCACCCACGATTTGAAAAGGCAGTTCTT
TCAGATGGTTCAGAAATGTTGCAAAATCAAAAATTGACAACCCGGAAGAAAAGGCATTGATT
GTGGACAACCTAAAGCCAGAATCCTTCTATGAGTTTTTTCATCACTCCATTCACTAGTGTCT
GGTGAAGGCCCCAGTGTACGTTTACGAAGGTCACGACTCCGGATGAACACTCCTCGATG
CTGATTCATATCCTACTGCCCATGGTTTTCTGCGTCTTGCTCATCATGGTTCATGTGCTAC
TTGAAAAGTCAGTGGATCAAGGAGACCTGTTATCCTGACATCCCTGACCTTACAAGAGC
AGCATCCTGTCTAATAAAAATCAAGGAGAACCCTCACCTAATAATAATGAATGTCAGT
GACTGTATCCCAGATGCTATTGAAGTTGTAAGCAAGCCAGAAGGGACAAAGATACAGTTC
CTAGGCACTAGGAAGTCACTCACAGAAACCGAGTTGACTAAGCCTAACTACCTTTATCTC
CTTCCAACAGAAAAGAATCACTCTGGCCCTGGCCCTGCATCTGTTTTGAGAACTTGACC
TATAACCAGGCAGCTTCTGACTCTGGCTCTTGTGGCCATGTTCCAGTATCCCCAAAAGCC
CCAAGTATGCTGGGACTAATGACCTCACCTGAAAATGACTAAAGGCACTAGAAAAAAC
TACATGAACTCCCTGGGAGAAATCCCAGCTGGAGAAACAAGTTTGAATTATGTGTCCCAG
TTGGCTTACCCATGTTTGGAGACAAGGACAGTCTCCCAACAAACCCAGTAGAGGCACCA
CACTGTTCAAGATATAAATGCAATGGCAGTCTCCCTGCGTCTTGCCTTGCCTCCCCCG
ACCGAGAATAGCAGCCTCTCCTCAATTACCCTTTTAGATCCAGGTGAACACTACTGCTAA
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| 5' Read Nucleotide Sequence: | >OriGene 5' read for NM_003999 unedited GCGGTCAGGATTTGNATACGATTCCTCATAGGCGGCCGCGATTCCGGCACCAGGCGCTTGC CCCCGAGCTGATTCATAGCCCCGGCCGGGCGCCTCTGCACGTCGCCCCGGAGCCCGC ACCCGCGCCCCACGCGCCGCCGAGGACTCGGCCCGGCTCGTGGAGCCCTTCGCCCGCGGC GTGAGTACCCCGACCCGCCCGTCCCGCTCTGCTCGCGCCCTGCCGTGCGCCGCCCTC GGTGGCTTTTCCGACGGGCGAGCCCCGTGCTGTGCGGGAAAGAATCCGACAACCTCGCAG CCCATCCCGGCTGGACGCGACCCGGGAGTGCAGCAGCCCGTTCCCTCCTCGGTGCCGCCT CTGCCCCAGCGTTTGCTTGGCTGGGCTACCACCTGCGCTCGGACGCGCTCGGAGGGTCTT CGCCCCGGCCTGCCTACCTGAAAACCAGAACTGATGGCTCTATTTGCAGTCTTTCAGAC AACATTCTTCTAACATTGCTGCTTGGAGACTTACCAGAGTGAAGTCTTGGCTGAACG TTTACCATTGACTCCTGTATCACTTAAAGTTTCCACCAATTCTACGCGTCAGAGTTTGA CTTACAATGGACTGTCCACAACCTTCTTATCATCAGGAATTGAAAATGGTATTTTCAGAT CCAGATCAGTAGGATTGAAACATCCAATGTCATCTGGGTGGGAATTACAGCACCCTGT GAAGTGAACAGGTTCTGCATTGGAGCTGGGAATCTGAGCTCCCTTTGGAATGTGCCAC ACACTTTGTAAGAATAAAGAGTTNGGTGGACGATGCCAGTTNCCTGAGCCAAATTTCTG GNAGCACTGGAGNTNCTGGGAGGAAGTCAGTGTACAAGATCTACTGGACAGGATATATGN NTCGTNTCCTAAAGAAG |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_003999 |
| Insert Size: | 4700 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| OTI Annotation: | The ORF of this clone has been fully sequenced and found to be a perfect match to NM_003999.1. |
| 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_003999.1</u> , <u>NP_003990.1</u> |
| RefSeq Size: | 4171 bp |
| RefSeq ORF: | 2940 bp |
| Locus ID: | 9180 |
| UniProt ID: | <u>Q99650</u> |
| Cytogenetics: | 5p13.1 |

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| Domains: | FN3 |
| Protein Families: | Druggable Genome, Transmembrane |
| Protein Pathways: | Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway |
| Gene Summary: | <p>This gene encodes a member of the type I cytokine receptor family. The encoded protein heterodimerizes with interleukin 6 signal transducer to form the type II oncostatin M receptor and with interleukin 31 receptor A to form the interleukin 31 receptor, and thus transduces oncostatin M and interleukin 31 induced signaling events. Mutations in this gene have been associated with familial primary localized cutaneous amyloidosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2009]</p> |