

Product datasheet for **SC305929**

OSCAR (NM_133169) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OSCAR (NM_133169) Human Untagged Clone
Tag:	Tag Free
Symbol:	OSCAR
Synonyms:	PlgR-3; PIGR3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_133169 edited CACCATGGCCCTGGTGTGATCCTCCAGCTGCTGACCCTCTGGCCTCTGTGTCACACAGA CATCACTCCGTCTGTCCCCCAGCTTCATACCACCCTAAGCCATGGCTGGGAGCTCAGCC GGCTACAGTTGTACCCCTGGGGTCAACGTGACCTTGAGATGCCGGGCACCCCAACCCGC TTGGAGATTTGGACTTTTCAAGCCTGGAGAGATCGCTCCCTTCTCTTCCGGGATGTGTC CTCCGAGCTGGCAGAATTCTTTCTGGAGGAGGTGACTCCAGCCCAAGGGGAAGTTACCG CTGCTGTACCGAAGGCCAGACTGGGGCCGGGTGTCTGGTCCCAGCCCAGCGATGCTCT GGAGCTGCTGGTACAGAGGAGCTGCCGCGCCGTCGCTGGTGGCGCTGCCCGGGCCGGT GGTGGGTCTGGCGCCAACGTGAGCCTGCGCTGCGCGGGCCGCTGCGGAACATGAGCTT CGTGTGTACCGGAGGGCGTGGCGGCCCGCTGCAGTACCGCCACTCCGCGCAGCCCTG GGCCGACTTACGCTGTGGGCGCCCGCCCGCCCGGCACCTACAGCTGCTACTATCACAC GCCCTCCGCGCCCTACGTGCTGTGCGAGCGCAGCGAGGTGCTGGTCATCAGCTGGGAAGA CTCTGGCTCCTCCGACTACACCCGGGGAACTAGTCCGCTGGGGCTGGCCGGGCTGGT CCTCATCTCCCTGGGCGCGCTGGTCACTTTTACTGGCGCAGTCAGAACCAGCGCTCCTGC TGGTATCCGCCCTGA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_133169 unedited</p> <pre>GGCAAAAACATTGCGACCATGGCCCTGGTGCTGATCCTCCAGCTGCTGACCCTCTGGCC TCTGTGTACACAGACATCACTCCGTCTGTCCCCCAGCTTCATACCACCCTAAGCCATG GCTGGGAGCTCAGCCGGCTACAGTTGTGACCCCTGGGGTCAACGTGACCTTGAGATGCCG GGCACCACAACCCGCTTGGAGATTTGGACTTTTCAAGCCTGGAGAGATCGCTCCCCTTCT CTTCCGGGATGTGTCTCCGAGCTGGCAGAATTCTTCTGGAGGAGGTGACTCCAGCCCA AGGGGAAGTTACCGCTGCTGCTACCGAAGGCCAGACTGGGGGCCGGGTGTCTGGTCCCA GCCCAGCGATGTCTGGAGCTGCTGGTGACAGAGGAGTCCCGCGCCGTCGCTGGTGCC GCTGCCCGGGCCGGTGGTGGTCTGGCCCAACGTGAGCCTGCGCTGCGCGGGCCGCT GCGGAACATGAGCTTCGTGCTGTACCGGAGGGCGTGGCGGCCCGCTGCAGTACCGCCA CTCCGCGCAGCCCTGGGCCGACTTACGCTGCTGGGCGCCCGCGCCCCGGCACCTACAG CTGCTACTATCACACGCCCTCCGCGCCCTACGTGCTGTGCGAGCGCAGCGAGGTGCTGGT CATCAGCTGGGAAGACTCTGGCTCCTCCGACTACACCCGGGGGAACTAGTCCGCTGG GGCTGGCCCGGGCTGTCTCATCTCCCTGGGCGCGCTGGTCACTTTTGACTGGCGCAGT CAGAACCC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_133169 unedited</p> <pre>NNNCCCGACCATTGGNNGATGGCACTTNCAGGNCCAGNANGAGCACTGGGGNAGGGTCA CAGGGATGCCACCCGGGATCTGTTCCAGGAAAAGCTATGACCGCGCCGAATCTATTNAG GGGCGGATACCAGCAGGAGCGCGGTTCTGACTGCGCCAGTCAAAAGTGACCAGCGCGCCC AGGGAGATGAGGACCAGCCGGCCAGCCCAAGCGGACTAGGTTCCCCCGGGTGTAGTCG GAGGAGCCAGAGTCTTCCAGCTGATGACCAGCACCTCGCTGCGTGCACAGCACGTAG GGCGCGGAGGGCTGTGATAGTAGCAGCTGTAGGTGCCGGGGCGCGGGCGCCAGCAGC GTGAAGTCGGCCAGGGCTGCGCGGAGTGGCGGTACTGCAGCGGGCCGCCACGCCCTCG CGGTACAGCACGAAGCTCATGTTCCGCGAGCGGGCCCGCGCAGCGCAGGCTCACGTTGGCG CCAGGACCCACCACCGCCCGGGCAGCGCCACCAGCGACGGCCGCGGCAGCTCCTCTGTC ACCAGCAGCTCCAGGACATCGCTGGGCTGGGACCAGACACCCGGCCCCCAGTCTGGCCTT CGGTAGCAGCAGCGGTAACCTTCCCCCTTGGGCTGGAGTCACTCCTCCAGAAAGAATTCT GCCAGCTCGGAGGACACATCCCGAAGAGAGGGGAGCGATCTCTCCAGGCTTGAAAAGTC CAAATCTCCAAGCGGGTGGGGTGCCCGGCATCTCAGGTACGTTGACCCAGGGGTAC AACTGTAGCCGGCTGAGCTCCAGCCATGGCTTAAGGTGGTATGAAAAGCTGGGGGACAG ACGAGTGATGTCTGTGTGACACAGAAGCCAGAGGTCAGCAGCTGGAGGA</pre>
Restriction Sites:	Please inquire
ACCN:	NM_133169
Insert Size:	800 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 open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_133169.2](#), [NP_573399.1](#)

RefSeq Size: 1428 bp

RefSeq ORF: 792 bp

Locus ID: 126014

UniProt ID: [Q8IYS5](#)

Cytogenetics: 19q13.42

Protein Families: Druggable Genome

Gene Summary: Osteoclasts are multinucleated cells that resorb bone and are essential for bone homeostasis. This gene encodes an osteoclast-associated receptor (OSCAR), which is a member of the leukocyte receptor complex protein family that plays critical roles in the regulation of both innate and adaptive immune responses. The encoded protein may play a role in oxidative stress-mediated atherogenesis as well as monocyte adhesion. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2013]

Transcript Variant: This variant (4) lacks an in-frame exon in the central coding region and lacks an internal segment in its 3' coding region, compared to variant 1. The encoded isoform (4) is shorter and has a distinct C-terminus, compared to isoform 1.