

Product datasheet for **SC305900**

OSCAR (NM_130771) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OSCAR (NM_130771) Human Untagged Clone
Tag:	Tag Free
Symbol:	OSCAR
Synonyms:	PigR-3; PIGR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_130771, the custom clone sequence may differ by one or more nucleotides

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ATGGCCCTGGTGCTGATCCTCCAGCTGCTGACCCCTCTGGCCTCTGTGTCACACAGACATCACTCCGTCTG
TGGCCATTATAGTCCCCCAGCTTCATACCACCCTAAGCCATGGCTGGGAGCTCAGCCGGCTACAGTTGT
GACCCCTGGGGTCAACGTGACCTTGAGATGCCGGGCACCCCAACCCGCTTGGAGATTTGGACTTTTCAAG
CCTGGAGAGATCGCTCCCTTCTCTCCGGATGTGTCTCCGAGCTGGCAGAATTCTTTCTGGAGGAGG
TGACTCCAGCCCAAGGGGAAGTTACCGCTGCTGCTACCGAAGGCCAGACTGGGGCCGGGTGTCTGGTC
CCAGCCCAGCGATGTCTGGAGCTGCTGGTGACAGAGGAGCTGCCGGCCGCTCGCTGGTGGCGCTGCC
GGCCCGTGGTGGTCTGGCGCCAACGTGAGCCTGCGCTGCGCGGGCCGCTGCGGAACATGAGCTTCG
TGCTGTACCGCGAGGGCGTGGCGCCCCGCTGCAGTACCGCCACTCCGCGCAGCCCTGGGCCGACTTCA
GCTGCTGGGCGCCCGCGCCCCGGCACCTACAGCTGCTACTATCACACGCCCTCCGCGCCCTACGTGCTG
TCGCAGCGCAGCGAGGTGCTGGTCATCAGCTGGGAAGACTCTGGCTCCTCCGACTACACCCGGGGAAAC
TAGTCCGCTGGGGCTGGCCGGGCTGGTCTCATCTCCCTGGGCGCGCTGGTCACTTTTGACTGGCGCAG
TCAGAACC GCGCTCCTGCTGGTATCCGCCCTGA
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Restriction Sites:	Please inquire
ACCN:	NM_130771



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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 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_130771.2](#), [NP_570127.2](#)

RefSeq Size: 1440 bp

RefSeq ORF: 804 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 (3) lacks an internal segment in its 3' coding region, compared to variant 1. The encoded isoform (3) has a shorter and distinct C-terminus, compared to isoform 1.