

Product datasheet for **RC237160**

OSCAR (NM_001282349) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: OSCAR (NM_001282349) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: OSCAR
Synonyms: PlgR-3; PIGR3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237160 representing NM_001282349
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCCTGGTGTGCTGATCCTCCAGCTGCTGACCCTCTGGCCTCTGTGTACACAGACATCACTCCGCTG
TCCCCCAGCTTCATACCACCCTAAGCCATGGCTGGGAGCTCAGCCGGCTACAGTTGTGACCCTGGGGT
CAACGTGACCTTGAGATGCCGGGCACCCAACCCGCTTGGAGATTGGACTTTTCAAGCCTGGAGAGATC
GCTCCCCTTCTCTCCGGGATGTGTCTCCGAGCTGGCAGAATCTTTCTGGAGGAGGTGACTCCAGCCC
AAGGGGAAGTTACCGCTGCTGCTACCGAAGGCCAGACTGGGGGCCGGGTGTCTGGTCCCAGCCCAGCGA
TGTCTGGAGCTGCTGGTGACAGAGGAGCTGCCGCGCCGCTCGCTGGTGGCGCTGCCGGGCCGGTGGT
GGTCTGGCGCAACGTGAGCTGCGCTGCGCGGGCCGCTGCGGAACATGAGCTTCGTGCTGTACCGCG
AGGGCGTGGCGGCCCGCTGCAGTACCGCCACTCCGCGCAGCCCTGGGCCGACTTCACGCTGCTGGGCGC
CCGCGCCCCGGCACCTACAGCTGCTACTATCACACGCCCTCCGCGCCCTACGTGCTGTGCGAGCGCAGC
GAGGTGCTGGTTCATCAGCTGGGAAGGTGAGGGCCCTGAGGCCCGCCCGCTCCTCCGCCAGGAATGC
AGGCCCCAGGACCTCCGCCCTCAGACCCAGGAGCCAGGCCCCAGCCCTCCTCCTTTCAGACCCAGGGG
TCTAGTCCTGCAGCCCTCCTCCCTCAGACCCAGGATTCCTGGGACCCAGCCCTCCTCCCTCAGATCCA
GGAGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237160 representing NM_001282349
 Red=Cloning site Green=Tags(s)

MALVLIQLLTLWPLCHTDITPSVPPASYHPKPWLGAQPATVVTPGVNVTLCRAPQPAWRFGFLFKPGEI
 APLLFRDVSSLAEFFLEEVTQAQGGSYRCCYRRPDWGPVWVQPSDVLELLVTEELPRPSLVALPGPVV
 GPGANVSLRCAGRLRNMSFVLYREGVAAPLQYRHSAPWADFTLLGARAPGTYSYYHTPSAPYVLSQRS
 EVLVISWEGEGPEARPASSAPGMQAPGPPSPDGAQAPSLSSFRPRGLVLQPLLPTQDSDWPAPPPSDP
 GV

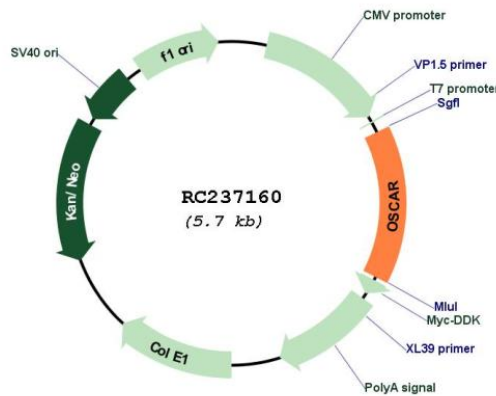
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282349

ORF Size: 846 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:	<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:	NM_001282349.1 , NP_001269278.1
RefSeq Size:	2061 bp
RefSeq ORF:	849 bp
Locus ID:	126014
UniProt ID:	Q8IYS5
Cytogenetics:	19q13.42
Protein Families:	Druggable Genome
MW:	30.9 kDa
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]