

## Product datasheet for **SC321020**

### OIF (OGN) (NM\_014057) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OIF (OGN) (NM_014057) Human Untagged Clone
Tag:	Tag Free
Symbol:	OIF
Synonyms:	OG; OIF; SLRR3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_014057.3  
 ATTTCCAGGGAAAAAGAGAGTTTTGTCCCACAGTCAGCAGGCCACTAGTTTATTAAC TTC  
 CAGTCACCTTGATTTTTGCTAAAATGAAGACTCTGCAGTCTACACTTCTCCTGTTACTGC  
 TTGTGCCTCTGATAAAGCCAGCACCACCAACCCAGCAGGACTCACGCATTATCTATGATT  
 ATGGAACAGATAATTTGAAGAATCCATATTTAGCCAAGATTATGAGGATAAATACCTGG  
 ATGGAAAAATATTAAGGAAAAAGAACTGTGATAATACCAATGAGAAAAAGTCTTCAAT  
 TACAAAAAGATGAGGCAATAACACCATTACCTCCCAAGAAAGAAAAATGATGAAATGCCCA  
 CGTGTCTGCTGTGTGTTTAAAGTGGCTCTGTATACTGTGAAGAAGTTGACATTGATG  
 CTGTACCACCTTACCAAAGGAATCAGCCTATCTTTACGCACGATTCAACAAAAATAAAA  
 AGCTGACTGCCAAAGATTTTGCAGACATACCTAACTTAAGAAGACTCGATTTTACAGGAA  
 ATTTGATAGAAGATATAGAAGATGGTACTTTTTCAAACCTTCTCTGTTAGAAGAAGCTTT  
 CACTTGTGAAAACTCACTACTAAAACCTCCAGTTCTTCTCCCAAGCTCACTTTATTTA  
 ATGCAAAATACAACAAAATCAAGAGTAGGGGAATCAAAGCAAATGCATTCAAAAACTGA  
 ATAACCTCACCTTCTCTACTTGGACCATAATGCCCTGGAAATCCGTGCCTCTTAATTTAC  
 CAGAAAGTCTACGTGTAATTCATCTTCAGTTCAACAACATAGCTTCAATTACAGATGACA  
 CATTCTGCAAGGCTAATGACACCAGTTACATCCGGGACCGCATTGAAGAGATACGCCTGG  
 AGGGCAATCCAATCGTCCTGGGAAAGCATCCAACAGTTTTATTTGCTTAAAAAGATTAC  
 CGATAGGGTCATACTTTAACCTCTATTGGTACAACATATAAATGAAAGTACACCTACAC  
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 ATCTCATTTTTGAAGGAATTAATATTTAAGCAAGGATGTTCAAAATCTTACATATAATA  
 AGTAAAAAGTAAGACTGAATGTCTACGTTGAAACAAAGTAATATGAAAAATTTAAACA  
 GCATTACAAAATCCTAGTTTATACTAGACTACCATTTAAAAATCATGTTTTATATAAAT  
 GCCCAAAATTTGAGATGCATTATTCCTATTACTAATGATGTAAGTACGAGGATAAATCCAA  
 GAAACTTTCAACTCTTTGCCTTTTCTGGCTTTACTGGATCCCAAAAGCATTTAAGGTAC  
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 TTCATACGTTATTCCTTATAAAGTAAGAAGCTTTGTTTCTCCTATCAAGGCAGCTATTT  
 TATTAATTTTTCACTTAGTCTGAGAAATAGCAGATAGTCTCATATTTAGGAAAAGCTTTC  
 CAAATAAAATAAATGTTATTCTCTGATAAAGAGCTAATACAGAAATGTTCAAGTTATTTT  
 ACTTTCTGGTAATGTCTTCAGTAAAATATTTTCTTTATCTAAATATTAACATTCTAAGTC  
 TACCAAAAAAGTTTTAACTCAAGCAGGCCAAAACCAATATGCTTATAAGAAAATATGA  
 AAAGTTACCCATTTCTGATAAAGTTCTCTATGGCAAAGTCTTCAAATACGAGATAACT  
 GCAAAATATTTTCTTTTATACTACAGAAATGAGAATCTCATCAATAAATTAGTTCAAGC  
 ATAAGATGAAAACAGAATATTCTGTGGTGCCAGTGACACTACCTTCCCACCCATACACA  
 TCCATGTTCACTGTAACAAACTGAATATTCACAATAAAGCTTCTGAGTAACACTTTCTGA  
 TTACTCATGATAAACTGACATGGCTAACTGCAAGAATTAATCTTCTATCTGAGAGTAAT  
 AATTTATGATGACTCAGTGGTGCCAGAGTAAAGTTTCTAAAAATAACATTCCTCTCACTTG  
 TACCCCACTAAAAGTATTAGACTACACATTACATTGAAGTTAAACACAAAATTATCAGTG  
 TTTTAGAAACATGAGTCCGGACTGTGTAAGTAAAAGTACAACATTATTTCCACCATAAA  
 GTATGTATTGAAATCAAGTTGTCTCTGTGTACAGAATACATACTATTCCCATTTTTAAG  
 CATTTGCTTCTGTTTTCCCTACCTAGAATGTGAGATGTTTTTTCAGTTATCTCCCATTTG  
 TCAAAGTTGACCTCAAGATAACATTTTTTATTAAAGCATCTGAGATCTAAGAACAACAAAT  
 ATTATTCTAACAATGATTATTAGCTCATTCACTTATTTTGATAACTAATGATCACAGCTA  
 TTATACTACTTTCTGTTATTTTGTGTGCATGCCTCATTTCCTGACTTAAATCTCACTG  
 AGAGCGCAAAATGCAGCTTTATACTTTTTACTTTCAATTGCCTAGCACAAATAGTGAGTAC  
 ATTTGAATTGAATATATAATAAATATTGCAAAATAAAATCCATCCAAAAAATTTTTTTT  
 AAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_014057

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_014057.3</a></u> , <u><a href="#">NP_054776.1</a></u>
<b>RefSeq Size:</b>	2786 bp
<b>RefSeq ORF:</b>	897 bp
<b>Locus ID:</b>	4969
<b>UniProt ID:</b>	<u><a href="#">P20774</a></u>
<b>Cytogenetics:</b>	9q22.31
<b>Domains:</b>	LRR, LRR_TYP
<b>Protein Families:</b>	Secreted Protein
<b>Gene Summary:</b>	<p>This gene encodes a member of the small leucine-rich proteoglycan (SLRP) family of proteins. The encoded protein induces ectopic bone formation in conjunction with transforming growth factor beta and may regulate osteoblast differentiation. High expression of the encoded protein may be associated with elevated heart left ventricular mass. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Both variants 1 and 3 encode the same isoform (2).</p>