

## Product datasheet for **RG210651**

### OIF (OGN) (NM\_014057) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OIF (OGN) (NM_014057) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OIF
Synonyms:	OG; OIF; SLRR3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210651 representing NM_014057 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGACTCTGCAGTCTACACTTCTCCTGTTACTGCTTGTGCCTCTGATAAAGCCAGCACCACCAACCC  
AGCAGGACTCACGCATTATCTATGATTATGGAACAGATAATTTTGAAGAATCCATATTTAGCCAAGATTA  
TGAGGATAAATACCTGGATGGAAAAATTAAGGAAAAAGAACTGTGATAATACCCAATGAGAAAAGT  
CTTCAATTACAAAAGATGAGGCAATAACACCATTACCTCCAAGAAAAGAAAATGATGAAATGCCACGT  
GTCTGCTGTGTGTTGTTAAGTGGCTCTGTATACTGTGAAGAAGTTGACATTGATGCTGTACCACCTT  
ACCAAAGGAATCAGCCTATCTTTACGCACGATTCAACAAAATTAAGGCTGACTGCCAAAGATTTTGCA  
GACATACCTAACTAAGAAGACTCGATTTTACAGGAAATTTGATAGAAGATATAGAAGATGGTACTTTTT  
CAAACTTTCTCTGTTAGAAGAACTTCACTTGCTGAAAATCAACTACTAAACTTCCAGTTCTTCTCC  
CAAGCTCACTTTATTTAATGCAAAATACAACAAAATCAAGAGTAGGGGAATCAAAGCAAATGCATTCAA  
AACTGAATAACCTCACCTTCTCTACTTGACCATAATGCCCTGGAATCCGTGCCTCTTAATTTACCAG  
AAAGTCTACGTGTAATTCATCTTCAGTTCAACAACATAGCTTCAATTACAGATGACACATTCTGCAAGGC  
TAATGACACCAGTTACATCCGGGACCGCATTGAAGAGATACGCCCTGGAGGCAATCCAATCGTCTGGGA  
AAGCATCAAACAGTTTTATTTGCTTAAAAGATTACCGATAGGGTCATACTTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG210651 representing NM\_014057  
 Red=Cloning site Green=Tags(s)

MKTLQSTLLLLLLVPLIKPAPPTQQDSRIIYDYGTDNFEESIFSQDYEDKYLDGKNIKEKETVIIIPNEKS  
 LQLQKDEAITPLPPKKNDEMPTCLLCVCLSGSVYCEEVDIDAVPPLPKESAYLYARFNKIKKLTAKDFA  
 DIPNLRRLDFTGNLIEDIEDGTFSKLSLLEELSLAENQLLKLPLVLPKLTFLNAKYNKIKSRGIKANAFK  
 KLNNTFLYLDHNALESVPLNLPESLRVIHLQFNNIASITDDTFCKANDTSYIRDRIEIRLEGNPVILG  
 KHPNSFICLKRPLIGSYF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014057

**ORF Size:** 894 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:**

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\\_014057.5](#)

**RefSeq Size:** 2786 bp

**RefSeq ORF:** 897 bp

**Locus ID:** 4969

**UniProt ID:** [P20774](#)

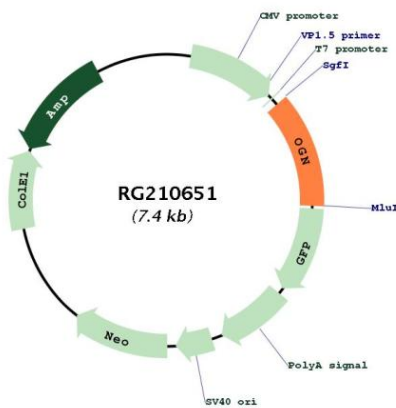
**Cytogenetics:** 9q22.31

**Domains:** LRR, LRR\_TYP

**Protein Families:** Secreted Protein

**Gene Summary:** 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]

### Product images:



Circular map for RG210651