

Product datasheet for **RG222023**

OIF (OGN) (NM_024416) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OIF (OGN) (NM_024416) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OGN
Synonyms:	OG; OIF; SLRR3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222023 representing NM_024416 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGACTCTGCAGTCTACACTTCTCCTGTTACTGCTTGTGCCTCTGATAAAGCCAGCACCACCAACCC
AGCAGGACTCACGCATTATCTATGATTATGGAACAGATAATTTTGAAGAATCCATATTTAGCCAAGATTA
TGAGGATAAATACCTGGATGGAAAAATTAAGGAAAAAGAACTGTGATAATACCCAATGAGAAAAGT
CTTCAATTACAAAAGATGAGGCAATAACACCATTACCTCCAAGAAAAGAAAATGATGAAATGCCACGT
GTCTGCTGTGTGTTGTTAAGTGGCTCTGTATACTGTGAAGAAGTTGACATTGATGCTGTACCACCTT
ACCAAAGGAATCAGCCTATCTTTACGCACGATTCAACAAAATTAAGGCTGACTGCCAAAGATTTTGCA
GACATACCTAACTAAGAAGACTCGATTTTACGGGAAATTTGATAGAAGATATAGAAGATGGTACTTTTT
CAAACTTTCTCTGTTAGAAGAACTTCACTTGTCTGAAAATCAACTACTAAACTTCCAGTTCTTCTCC
CAAGCTCACTTTATTTAATGCAAAATACAACAAAATCAAGAGTAGGGGAATCAAAGCAAATGCATTCAA
AACTGAATAACCTCACCTTCTCTACTTGGACCATAATGCCCTGGAATCCGTGCCTCTTAATTTACCAG
AAAGTCTACGTGTAATTCATCTTCAGTTCAACAACATAGCTTCAATTACAGATGACACATTCTGCAAGGC
TAATGACACCAGTTACATCCGGGACCGCATTGAAGAGATACGCCCTGGAGGGCAATCCAATCGTCTGGGA
AAGCATCAAACAGTTTTATTTGCTTAAAAAGATTACCGATAGGGTCATACTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222023 representing NM_024416
Red=Cloning site Green=Tags(s)

MKTLQSTLLLLLLVPLIKPAPPTQQDSRIIYDYGTDNFEESIFSQDYEDKYLDGKNIKEKETVVIIPNEKS
 LQLQKDEAITPLPPKKNDEMPTCLLCVCLSGSVYCEEVDIDAVPPLPKESAYLYARFNKIKKLTAKDFA
 DIPNLRRLDFTGNLIEDIEDGTFSKLSLLEELSLAENQLLKLPLVLPKLTFLNAKYNKIKSRGIKANAFK
 KLNLLTFLYLDHNALESVPLNLPESLRVIHLQFNNIASITDDTFCKANDTSYIRDRIEEIRLEGNPVILG
 KHPNSFICLKRPLIGSYF

TRTRPLE - GFP Tag - V

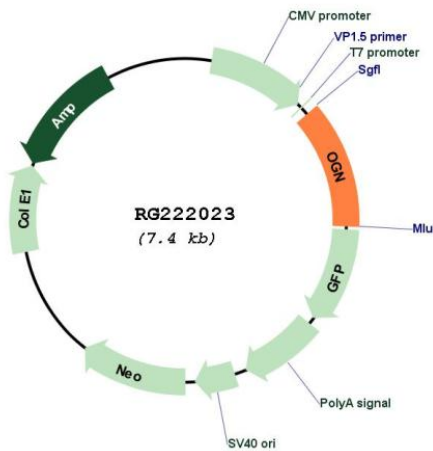
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_024416

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:	<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_024416.2 , NP_077727.1
RefSeq Size:	2793 bp
RefSeq ORF:	1071 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]