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# Product datasheet for RC222023

## 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:** | Myc-DDK |
| **Symbol:** | OIF |
| **Synonyms:** | OG; OIF; SLRR3A |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

```
>RC222023 representing NM_024416
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGACTCTGCAGTCTACACTTCTCCTGTTACTGCTTGTGCCTCTGATAAAGCCAGCACCACCAACCC
AGCAGGACTCACGCATTATCTATGATTATGGAACAGATAATTTTGAAGAATCCATATTTAGCCAAGATTA
TGAGGATAAATACCTGGATGGAAAAAATATTAAGGAAAAAGAAACTGTGATAATACCCAATGAGAAAAGT
CTTCAATTACAAAAAGATGAGGCAATAACACCATTACCTCCCAAGAAAGAAAATGATGAAATGCCCACGT
GTCTGCTGTGTGTTTGTTTAAGTGGCTCTGTATACTGTGAAGAAGTTGACATTGATGCTGTACCACCCTT
ACCAAAGGAATCAGCCTATCTTTACGCACGATTCAACAAAATTAAAAAGCTGACTGCCAAAGATTTTGCA
GACATACCTAACTTAAGAAGACTCGATTTTACGGGAAATTTGATAGAAGATATAGAAGATGGTACTTTTT
CAAAACTTTCTCTGTTAGAAGAACTTTCACTTGCTGAAAATCAACTACTAAAACTTCCAGTTCTTCCTCC
CAAGCTCACTTTATTTAATGCAAAATACAACAAAATCAAGAGTAGGGGAATCAAAGCAAATGCATTCAAA
AAACTGAATAACCTCACCTTCCTCTACTTGGACCATAATGCCCTGGAATCCGTGCCTCTTAATTTACCAG
AAAGTCTACGTGTAATTCATCTTCAGTTCAACAACATAGCTTCAATTACAGATGACACATTCTGCAAGGC
TAATGACACCAGTTACATCCGGGACCGCATTGAAGAGATACGCCTGGAGGGCAATCCAATCGTCCTGGGA
AAGCATCCAAACAGTTTTATTTGCTTAAAAAGATTACCGATAGGGTCATACTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

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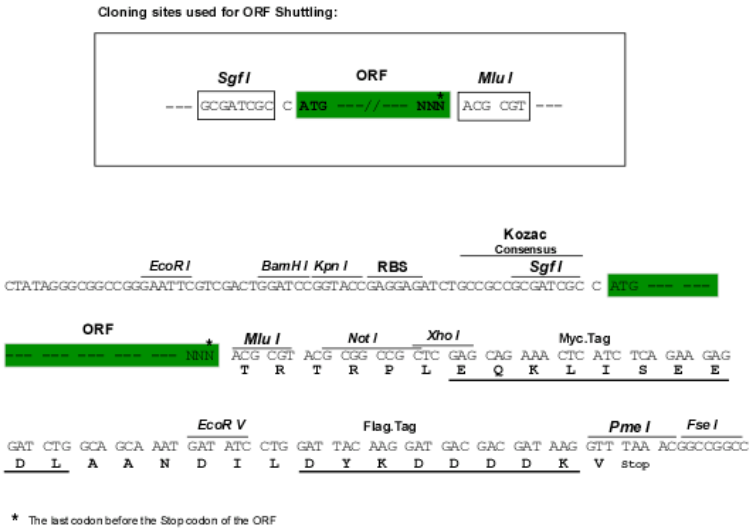
**Protein Sequence:**

```
>RC222023 representing NM_024416
Red=Cloning site Green=Tags(s)

MKTLQSTLLLLLLVPLIKPAPPTQQDSRIIYDYGTDNFEESIFSQDYEDKYLDGKNIKEKETVIIPNEKS
LQLQKDEAITPLPPKKENDEMPTCLLCVCLSGSVYCEEVDIDAVPPLPKESAYLYARFNKIKKLTAKDFA
DIPNLRRLDFTGNLIEDIEDGTFSKLSLLEELSLAENQLLKLPVLPPKLTLFNAKYNKIKSRGIKANAFK
KLNNLTFLYLDHNALESVPLNLPESLRVIHLQFNNIASITDDTFCKANDTSYIRDRIEEIRLEGNPIVLG
KHPNSFICLKRLPIGSYF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

**Chromatograms:** https://cdn.origene.com/chromatograms/ja1481_e04.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**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).

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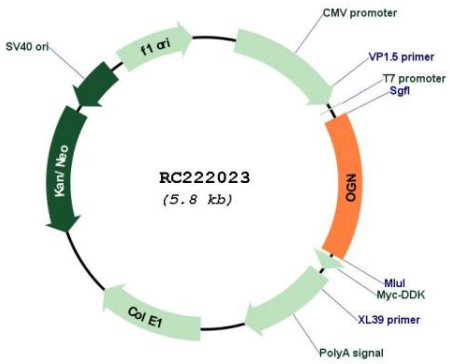
| | |
|---|---|
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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. |
| **Note:** | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| **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 |
| **MW:** | 36.5 kDa |
| **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 RC222023

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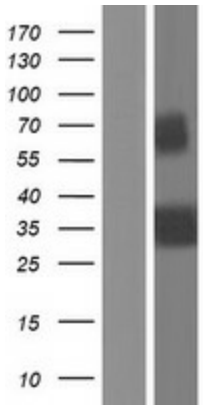


Western blot validation of overexpression lysate (Cat# [LY411273]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222023 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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