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Product datasheet for RC220943

OGFOD2 (NM_024623) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OGFOD2 (NM_024623) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OGFOD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

```
>RC220943 representing NM_024623
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTTGAGCTTGAGCAGGAGGTGGAGCGGCGGCAGCGGCTGGGGCAGGAGTCAGCAGCTAGGAAAGCCC
TCATCGCGAGTTCCTACCACCCGGCACGGCCTGAGGTCTACGACTCACTGCAGGATGCAGCTCTGGCCCC
CGAGTTCCTGGCCGTGACTGAGTACAGCGTGTCCCCAGACGCAGACCTCAAGGGCCTTCTCCAGCGGCTG
GAGACAGTATCGGAGGAGAAGCGCATCTACCGGGTGCCTGTTTTCACAGCGCCCTTCTGCCAGGCCCTGC
TGGAAGAGCTGGAGCACTTCGAGCAATCGGACATGCCTAAGGGGAGGCCCAACACCATGAACAACTACGG
GGTGCTGCTGCACGAGCTCGGGCTGGACGAGCCGCTGATGACACCACTGCGGGAGCGCTTCCTGCAGCCG
CTGATGGCCCTGCTGTACCCTGACTGTGGCGGGGGCCGGCTCGACAGCCACCGGGCCTTTGTGGTCAAAT
ACGCACCGGGCCAGGACCTGGAGCTGGGCTGCCACTATGATAATGCCGAGCTCACCCTCAATGTGGCCTT
GGGCAAGGTCTTCACAGGGGGCGCCCTGTATTTTGGGGGCCTCTTCCAGGCACCCACAGCCCTGACGGAG
CCCCTGGAGGTGGAGCACGTGGTGGGCCAGGGTGTCCTCCACCGTGGCGGCCAGCTGCATGGAGCCCGGC
CCTTGGGCACTGGTGAGCGTTGGAACCTTGTCGTCTGGCTCCGAGCCTCTGCTGTGCGCAACAGCCTCTG
TCCCATGTGCTGCCGTGAGCCCGACCTGGTGGACGATGAGGGCTTCGGTGATGGCTTCACCCGAGAGGAG
CCCGCCACGGTGGATGTATGTGCGCTCACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

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Protein Sequence:

```
>RC220943 representing NM_024623
Red=Cloning site Green=Tags(s)

MVELEQEVERRQRLGQESAARKALIASSYHPARPEVYDSLQDAALAPEFLAVTEYSVSPDADLKGLLQRL
ETVSEEKRIYRVPVFTAPFCQALLEELEHFEQSDMPKGRPNTMNNYGVLLHELGLDEPLMTPLRERFLQP
LMALLYPDCGGGRLDSHRAFVVKYAPGQDLELGCHYDNAELTLNVALGKVFTGGALYFGGLFQAPTALTE
PLEVEHVVGQGVLHRGGQLHGARPLGTGERWNLVVWLRASAVRNSLCPMCCREPDLVDDEGFGDGFTREE
PATVDVCALT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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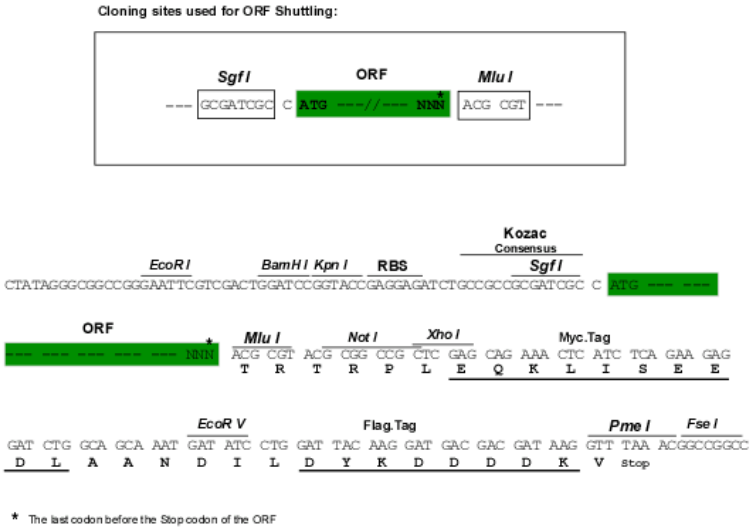
Chromatograms: https://cdn.origene.com/chromatograms/mk8041_f04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024623

ORF Size: 870 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.
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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_024623.3

RefSeq Size: 2080 bp

RefSeq ORF: 873 bp

Locus ID: 79676

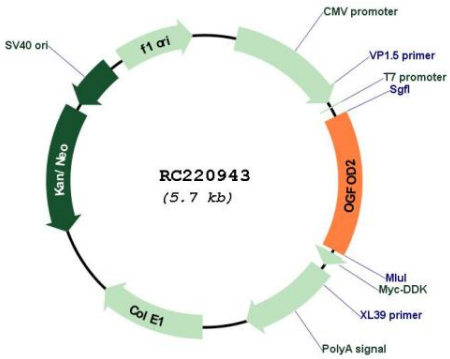
UniProt ID: Q6N063

Cytogenetics: 12q24.31

Domains: 2OG-FeII_Oxy, P4Hc

MW: 31.9 kDa

Product images:



Circular map for RC220943

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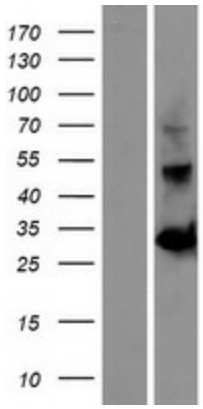
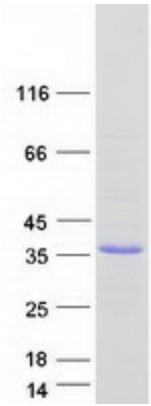


Western blot validation of overexpression lysate (Cat# [LY411187]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220943 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified OGFOD2 protein (Cat# [TP320943]). The protein was produced from HEK293T cells transfected with OGFOD2 cDNA clone (Cat# RC220943) using MegaTran 2.0 (Cat# [TT210002]).

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