

Product datasheet for **RC204502**

OSR2 (NM_053001) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OSR2 (NM_053001) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OSR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204502 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGAGCAAGGCTCTGCCAGCGCCCATCCCGCTCCACCCGTCGCTGCAGCTACCAATTACTCCTTCC
 TGCAGGCCGTGAACACCTTCCCGCCACGGTGGACCACCTGCAGGGCCTGTACGGTCTCAGCGCGGTACA
 GACCATGCACATGAACCACTGGACGCTGGGTATCCCAATGTGCACGAGATCACCCGCTCCACCATCAGC
 GAGATGGCGGCGGCGCAGGGCCTCGTGGACGCGCGCTTCCCTTCCCGGCCCTGCCTTTTACCACCCACC
 TATTCCACCCCAAGCAGGGGGCCATTGCCACGTCCTCCAGCCCTGCACAAGGACCGGCCCGTTTGA
 CTTTGCCAATTTGGCGGTGGCTGCCACGCAAGAGGATCCGCCTAAGATGGGAGACCTGAGCAAGCTGAGC
 CCAGGACTGGGTAGCCCATCTCGGGCCTCAGTAAATTGACTCCGGACAGAAAGCCCTCTCGAGGAAGGT
 TGCCCTCCAAAACGAAAAAGAGTTTATCTGCAAGTTTTGCGGCAGACACTTTACCAATCCTACAATTT
 GCTCATCCATGAGAGGACCCACACGGACGAGAGGCCGTACACGTGTGACATCTGCCACAAGGCCTTCCGG
 AGGCAAGATCACCTGCGGGATCACAGATACATCCATTCCAAAGAAAAACCCTTCAAATGTCAGGAGTGTG
 GGAAAGGATTTTGTGCTAGTCTAGAACTCTAGCAGTTCACAAACTTTACACATGCAGACATCAAGCCCTAC
 AGCTGCGAGCAGTGGCGCAAAGTGTTCAGGCGAAACTGTGATCTGCGGCGGCACAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC204502 protein sequence
 Red=Cloning site Green=Tags(s)

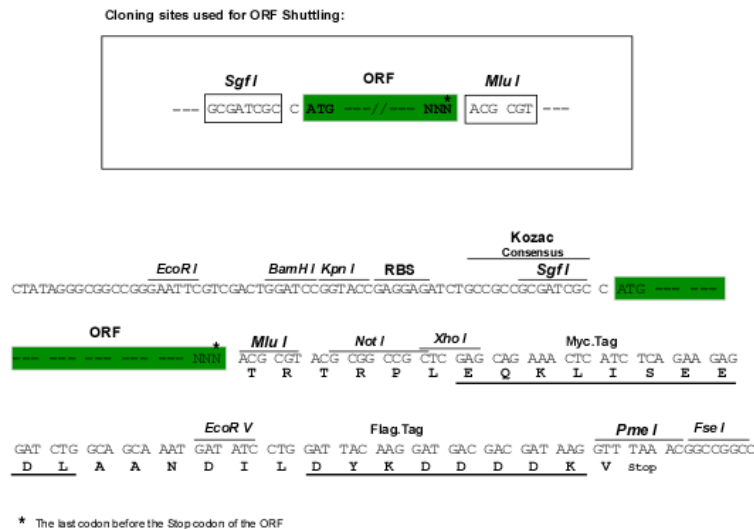
MGSKALPAPIPLHPSLQLTNYSFLQAVNTFPATVDHLQGLYGLSAVQTMHMHWTLGYPNVHEITRSTIT
 EMAAAQGLVDARFPFPALPFTTHLFHPKQGAIAHVLPALHKDRPRDFANLAVAATQEDPPKMGDLSKLS
 PGLGSPISGLSKLTPDRKPSRGRLPSTKKEFICKFCGRHFTKSYNLLIHERHTDTERPYTCDICHKAFR
 RQDHLRDHRYIHSKEKPFKCECGKGFCSRTLAVHKTLMQTSSPTAASSAAKCSGETVICGGTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6720_f10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_053001

ORF Size: 828 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.

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

RefSeq: [NM_053001.3](#)

RefSeq Size: 1795 bp

RefSeq ORF: 831 bp

Locus ID: 116039

UniProt ID: [Q8N2R0](#)

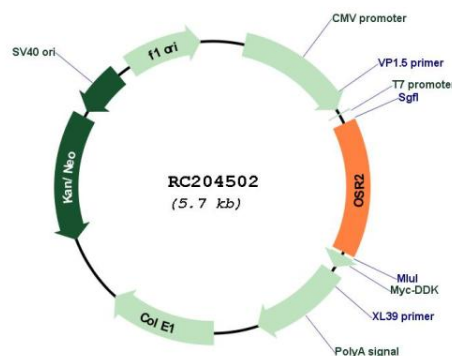
Cytogenetics: 8q22.2

Domains: zf-C2H2

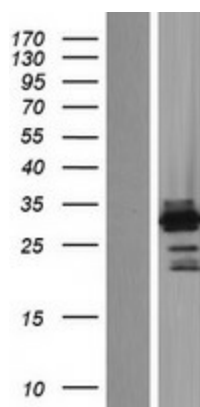
MW: 30.6 kDa

Gene Summary: OSR2 is a mammalian homolog of the Drosophila odd-skipped family of transcription factors (Lan et al., 2004 [PubMed 15175245]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC204502



Western blot validation of overexpression lysate (Cat# [LY409353]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204502 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).