

Product datasheet for **RG227535**

OSR2 (NM_001142462) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OSR2 (NM_001142462) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OSR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227535 representing NM_001142462 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGAGCAAGGCTCTGCCAGCGCCCATCCCGCTCCACCCGTCGCTGCAGCTCACCAATTACTCCTTCC
 TGCAGGCCGTGAACACCTTCCCGCCACGGTGGACCACCTGCAGGGCCTGTACGGTCTCAGCGCGGTACA
 GACCATGCACATGAACCACTGGACGCTGGGGTATCCCAATGTGCACGAGATCACCCGCTCCACCATCAGC
 GAGATGGCGGCGGCGCAGGGCCTCGTGGACGCGCGCTTCCCTTCCCGGCCCTGCCTTTTACCACCCACC
 TATTCCACCCCAAGCAGGGGGCCATTGCCACGTCCTCCAGCCCTGCACAAGGACCGGCCCGTTTGA
 CTTTGCCAATTTGGCGGTGGCTGCCACGCAAGAGGATCCGCCTAAGATGGGAGACCTGAGCAAGCTGAGC
 CCAGGACTGGGTAGCCCCATCTCGGGCCTCAGTAAATTGACTCCGGACAGAAAGCCCTCTCGAGGAAGGT
 TGCCCTCCAAAACGAAAAAGAGTTTATCTGCAAGTTTTCGCGCAGACACTTTACCAATCCTACAATTT
 GCTCATCCATGAGAGGACCCACACGGACGAGAGGCCGTACACGTGTGACATCTGCCACAAGGCCTTCCGG
 AGGCAAGATCACCTGCGGGATCACAGATACATCCATTCCAAAGAAAAACCTTCAAATGTCAGGAGTGTG
 GGAAAGGATTTTGTGAGTCTAGAACTCTAGCAGTTCACAAAACCTTACACATGCAGGAATCTCCACAAA
 ATGTCCCATGTGGAAGAACCCTTAATCAGAGAAGTAATCTGAAACTCACCTTCTACCCATACAGAC
 ATCAAGCCCTACAGCTGCGAGCAGTGGGCAAGTGTTTCAGGCGAAACTGTGATCTGCGCGGCACAGCC
 TGACTCACACCCCGCGGAGGACTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG227535 representing NM_001142462
 Red=Cloning site Green=Tags(s)

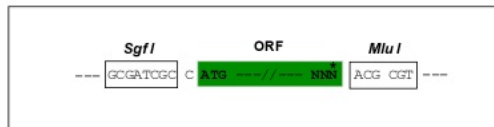
MGSKALPAPIPLHPSLQLTNYSFLQAVNTFPATVDHLQGLYGLSAVQTMHMHWTLGYPNVHEITRSTIT
 EMAAAQGLVDARFPFPALPFTTHLFHPKQGAIAHVLPAHKDRPRDFANLAVAATQEDPPKMGDLSKLS
 PGLGSPISGLSKLTPDRKPSRGLPSKTKKEFICKFCGRHFTKSYNLLIHERTHTDERPYTCDICHKAFR
 RQDHLRDHRYIHSKEKPFKCECGKFCQSRTLAVHKTLMQESPHKCPTCGRTFNQRSNLKTHLLTHTD
 IKPYSCEQCQGVFRRNCDLRRHSLTHTPRQDF

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



CTATAGGCGCGCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGCGCGCCAGATCT
 EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CAAGCTTAAGCTAGTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---
 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 T R T R P L E M E S D - - -
 --- GAA GAA AGA GTT TAA ACGGCGCGCGGAGCT
 - - E E R V Stop

ACCN: NM_001142462

ORF Size: 936 bp

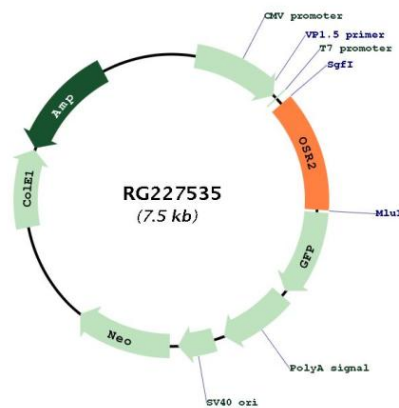
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_001142462.3</u>
RefSeq Size:	1907 bp
RefSeq ORF:	939 bp
Locus ID:	116039
UniProt ID:	<u>Q8N2R0</u>
Cytogenetics:	8q22.2
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 RG227535