

## Product datasheet for **RG206422**

### NR0B2 (NM\_021969) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NR0B2 (NM_021969) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NR0B2
Synonyms:	SHP; SHP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206422 representing NM_021969 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCACCAGCCAACCAGGGGCTGCCATGCCAGGGAGCTGCAAGCCGCCCGCCATTCTCTACGCAC  
TTCTGAGCTCCAGCCTCAAGGCTGTCCCCGACCCGTAGCCGCTGCCTATGTAGGCAGCACCGGCCGT  
CCAGCTATGTGCACCTCATCGACCTGCCGGGAGGCCTGGATGTTCTGGCCAAGACAGTGGCCTTCTC  
AGGAACCTGCCATCCTTCTGGCAGCTGCCTCCCCAGGACCAGCGCGGCTGCTGCAGGGTTGCTGGGGC  
CCCTCTTCTGCTGGGTTGGCCAAGATGCTGTGACCTTTGAGGTGGCTGAGGCCCGGTGCCAGCAT  
ACTCAAGAAGATTCTGCTGGAGGAGCCAGCAGCAGTGGAGGCAGTGGCCAAGTCCAGACAGACCCAG  
CCCTCCCTGGCTGCGGTGCAAGTGGCTTCAATGCTGTCTGGAGTCTTCTGGAGCCTGGAGCTTAGCCCCA  
AGGAATATGCCTGCCTGAAAGGGACCATCCTCTCAACCCCGATGTGCCAGGCCTCAAGCCGCCTCCCA  
CATTGGGCACCTGCAGCAGGAGGCTCACTGGGTGCTGTGTGAAGTCTGGAACCTGGTGCCAGCAGCC  
CAAGGCCGCTGACCCGTGCTCCTCACGGCCTCCACCTCAAGTCCATTCCGACCAGCCTGCTTGGGG  
ACCTCTTCTTTCGCCCTATCATTGGAGATGTTGACATCGCTGGCCTTCTTGGGGACATGCTTTTGCTCAG  
G

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206422 representing NM\_021969  
Red=Cloning site Green=Tags(s)

MSTSQPGACPCQGAASRPAILYALLSSSLKAVPRPRSRLCRQHRPVQLCAHRTCREALDVLAKTVAFL  
 RNLPSPFWQLPPQDQRLLQGCWGPLFLLGLAQDAVTFEVAEAPVPSILKKILLEPSSSSGGSQLPDRPQ  
 PSLAAVQWLQCCLSEFSWLELSPKEYACKGTILFNPDVPGLOAASHIGHLQEAHWLCEVLEPWCPAA  
 QGRLTRVLLTASTLKS IPTSLLGDLFFRPIIGD VDIAGLLGDMLLLR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_021969

**ORF Size:** 771 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.

**RefSeq:** [NM\\_021969.3](#)

**RefSeq Size:** 1168 bp

**RefSeq ORF:** 774 bp

**Locus ID:** 8431

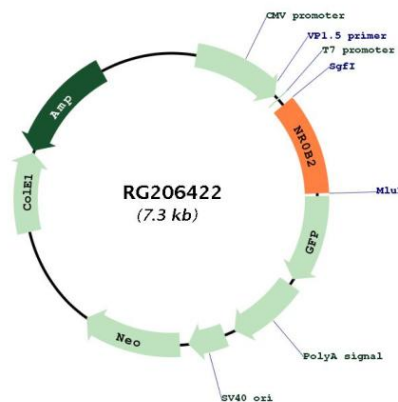
**UniProt ID:** [Q15466](#)

**Cytogenetics:** 1p36.11

**Protein Families:** Druggable Genome, Transcription Factors

**Gene Summary:** The protein encoded by this gene is an unusual orphan receptor that contains a putative ligand-binding domain but lacks a conventional DNA-binding domain. The gene product is a member of the nuclear hormone receptor family, a group of transcription factors regulated by small hydrophobic hormones, a subset of which do not have known ligands and are referred to as orphan nuclear receptors. The protein has been shown to interact with retinoid and thyroid hormone receptors, inhibiting their ligand-dependent transcriptional activation. In addition, interaction with estrogen receptors has been demonstrated, leading to inhibition of function. Studies suggest that the protein represses nuclear hormone receptor-mediated transactivation via two separate steps: competition with coactivators and the direct effects of its transcriptional repressor function. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG206422