

Product datasheet for RC206422

NR0B2 (NM_021969) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NR0B2 (NM_021969) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NR0B2
Synonyms:	SHP; SHP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206422 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGAGCACCAGCCAACCAGGGGCTGCCATGCCAGGGAGCTGCAAGCCGCCCGCCATTCTCTACGCAC
TTCTGAGCTCCAGCCTCAAGGCTGTCCCCGACCCGTAGCCGCTGCCTATGTAGGCAGCACCAGGCCGT
CCAGCTATGTGCACCTCATCGACCTGCCGGGAGGCCTTGGATGTTCTGGCCAAGACAGTGGCCTTCCTC
AGGAACCTGCCATCCTTCTGGCAGCTGCCTCCCAGGACCAGCGCGGCTGCTGCAGGGTTGCTGGGGCC
CCCTCTTCTGCTTGGGTTGGCCAAGATGCTGTGACCTTTGAGGTGGCTGAGGCCCGGTGCCAGCAT
ACTCAAGAAGATTCTGCTGGAGGAGCCAGCAGCAGTGGAGGCAGTGGCCAAGTCCAGACAGACCCAG
CCCTCCCTGGCTGCGGTGCAGTGGCTTCAATGCTGTCTGGAGTCTTCTGGAGCCTGGAGCTTAGCCCCA
AGGAATATGCCTGCCTGAAAGGGACCATCCTCTCAACCCCGATGTGCCAGGCCTCAAGCCGCCTCCCA
CATTGGGCACCTGCAGCAGGAGGCTCACTGGGTGCTGTGTGAAGTCTGGAACCTGGTGCCAGCAGCC
CAAGGCCGCTGACCCGTGCTCCTCACGGCCTCCACCCTCAAGTCCATTCCGACCAGCCTGCTTGGGG
ACCTCTTCTTTCGCCCTATCATTGGAGATGTTGACATCGCTGGCCTTCTTGGGACATGCTTTTGCTCAG
G

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC206422 protein sequence
 Red=Cloning site Green=Tags(s)

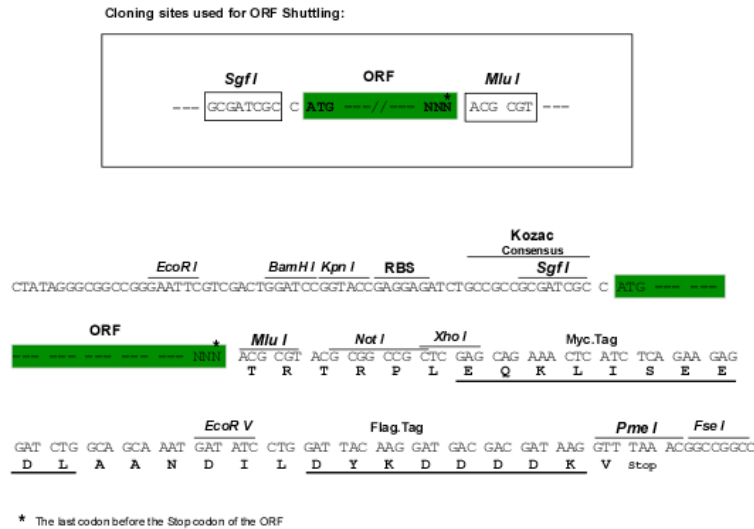
MSTSQPGACPCQGAASRPAILYALLSSSLKAVPRPRSRLCRQHRPVQLCAHRTCREALDVLAKTVAFL
 RNLPSFWQLPPQDQRRLLQGCWGFLFLLGLAQDAVTFEVAEAPVPSILKKILLEPSSSSGGSGQLPDRPQ
 PSLAAVQWLQCCLESFWSLELSPKEYACLKGTILFNPDPVGLQAASHIGHLQEAHWVLCEVLEPWCPAA
 QGRLTRVLLTASTLKS IPTSLLGDLFFRPIIGD VDIAGLLGDMLLLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6016_h09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021969

ORF Size: 771 bp

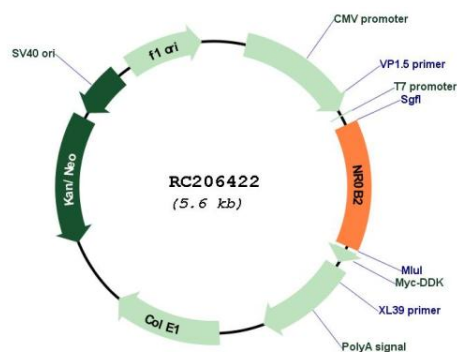
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

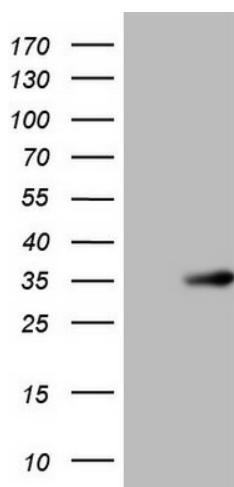
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none"> 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:	<u>NM_021969.3</u>
RefSeq Size:	1277 bp
RefSeq ORF:	774 bp
Locus ID:	8431
UniProt ID:	<u>Q15466</u>
Cytogenetics:	1p36.11
Protein Families:	Druggable Genome, Transcription Factors
MW:	28.1 kDa
Gene Summary:	<p>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]</p>

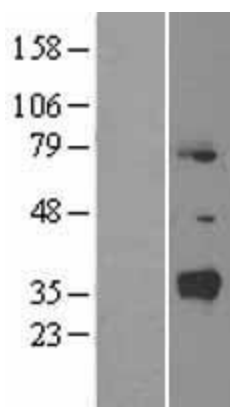
Product images:



Circular map for RC206422



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NR0B2 (Cat# RC206422, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NR0B2 (Cat# [TA806321]). Positive lysates [LY402893] (100ug) and [LC402893] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402893]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206422 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).