

Product datasheet for **SC322380**

NUR77 (NR4A1) (NM_002135) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUR77 (NR4A1) (NM_002135) Human Untagged Clone
Tag:	Tag Free
Symbol:	NUR77
Synonyms:	GFRP1; HMR; N10; NAK-1; NGFIB; NP10; NUR77; TR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322380
 GGCTACGAAACTTGGGGGAGTGCACAGAAGAACTTCGGGAGCGCACGCGGGACCAGGGAC
 CAGGCTGAGACTCGGGGCGCCAGTCCGGGCAGGGGCAGCGGGAGCCGGCCGGTAGGGTG
 CAGCCTGAGGCTTGTTCAGCAGAACAGGTGCAAGCCACATTGTTGCCAAGACCTGCCTGA
 AGCCGGATTCTCCCCACTGCCTCCTTCAACCCCGCCTTCTCCTCCTGTGGGACTGCT
 CCCCCCTCTGTGAGGCTAGATAGATGCCCTGTATCCAAGCCCAATATGGGACACCAGCA
 CCGAGTCCGGGACCCCGTGACCACCTGGCAAGCGACCCCTGACCCTGAGTTCATCAAG
 CCCACCATGGACCTGGCCAGCCCGAGGAGCCCGCTGCCCCACTGCCCTGCCCAGC
 TTCAGCACCTTTCATGGACGGCTACACAGGAGATTTGACACCTTCTCCTACCAGTGCCA
 GGAACAGTCCAGCCATGCTCCTCAGCCTCCTCCTCGGCCTCCTCCACATCCTCGTCTCA
 GCCACCTCCCCTGCCTCTGCCTCCTTCAAGTTCGAGGACTTCCAGGTGTACGGCTGTAC
 CCCGGCCCCCTGAGCGGCCAGTGGATGAGGCCCTGTCTCCAGTGGCTCTGACTACTAT
 GGCAGCCCTGTCCGCCCGTCCGCTCCACGCCAGCTTCCAGCCGCCAGCTCTCT
 CCCTGGGATGGCTCCTTCGGCCACTTCTCGCCAGCCAGACTTACGAAGGCTGCCGGCA
 TGGACAGAGCAGCTGCCAAAGCCTCTGGGCCCCACAGCCTCCAGCCTTCTTTTCTTC
 AGTCTCCACCCGCCCCAGCCAGCCTGGCCAGAGCCCTGAAGTTGTTCCCTCA
 CAGGCCACCCACAGCTGGGGGAGGAGAGAGCTATTCCATGCCTACGGCCTTCCAGGT
 TTGGCACCCACTTCTCCACACTTGAGGGCTCGGGGATACTGGATACACCCGTGACCTCA
 ACCAAGGCCCGGAGCGGGGCCCCAGGTGGAAGTGAAGGCCGTGTGCTGTGTGGGGAC
 AACGCTTCATGCCAGCATTATGGTGTCCGCACATGTGAGGGTGAAGGGCTTCTTCAAG
 CGCACAGTGCAGAAAAACGCCAAGTACATCTGCCTGGCTAACAAAGACTGCCCTGTGGAC
 AAGAGCGGGGAAACCGCTGCCAGTTCGCGCTTCCAGAAGTGCCTGGCGGTGGGCTG
 GTGAAGGAAGTTGTCCGAACAGACAGCCTGAAGGGGCGGGGGCCGGCTACCTTCAAAA
 CCCAAGCAGCCCCAGATGCCTCCCTGCCAATCTCCTCACTTCCCTGGTCCGTGCACAC
 CTGGACTCAGGGCCAGCACTGCCAAACTGGACTACTCCAAGTTCAGGAGCTGGTGCTG
 CCCCCTTTGGGAAGGAAGATGCTGGGGATGTACAGCAGTTCTACGACCTGCTCTCCGT
 TCTCTGGAGGTACCCGCAAGTGGGCGGAGAAGATCCCTGGCTTTGCTGAGCTGTACCG
 GCTGACCAGGACTGTTGCTGGAGTCGGCCTTCTGGAGCTTTCATCCTCCGCTGGCG
 TACAGGTCTAAGCCAGGCGAGGGCAAGCTCATCTTCTGCTCAGGCCTGGTGTACACCG
 CTGCAGTGTGCCGTGGCTTCGGGACTGGATTGACAGTATCCTGGCCTTCTCAAGGTCC
 CTGCACAGCTTGTGTGATGTCCCTGCCTTCGCTGCCTCTCTGCCCTGTCTCATC
 ACCGACCCGATGGGCTGCAGGAGCCGCGCGGGTGGAGGAGCTGCAGAACCCGATCGCC
 AGCTGCCTGAAGGAGCACGTGGCAGCTGTGGCGGGCAGCCCCAGCCAGCCAGCTGCCTG
 TCACGTCTGTTGGGCAAACCTGCCGAGCTGCGGACCCCTGTGCACCCAGGGCTGCAGCG
 ATCTTCTACCTCAAGCTGGAGGACTTGGTGCCCTCCACCCATCATTGACAAGATCTTC
 ATGGACACGCTGCCCTTCTGACCCTGCCTGGGAACACGTGTGCACATGCGCACTCTCAT
 ATGCCACCCATGTGCCTTATGTCACGGACCCCAAGCAGCAGCCCAAGCCTGGGCTTGA
 GCTGCAGAATGACTCCACCTTCTACCTGCTCCAGGAGTTTGCAGGGAGCTCAAGCCCT
 TGGGAGGGGGATGCCTTCATGGGGGTGACCCACGATTTGTCTTATCCCCCAGCCTG
 GCCCGGCTTTATGTTTTTTGTAAGATAAACCGTTTTTAAACATAGCGCCGTGTGTA
 AATAAGCCAGTGTGCTGTAATAACAGGAAGAAAGAGCTTGGAGTGGGAGCGGGCTGG
 GAGGAAGGGATGGGCCCGCCTTCTGGGAGCCTTCCAGCCTCCTGTGGCTCTCTCT
 TCCTACCTCCTTCCACATGTACATAAACTGTCACCTTAGGAAGAAGACAAATGACAGAT
 TCTGACATTTATTTGTGATTTTCTGGATTATAGTATGTGACTTTTCTGATTAATA
 TATTTAATATATTGAATAAAAAATAGACATGTAGTTGGAAAAAAAAAAAAATATAAAAA
 AAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_002135

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_002135.3](#), [NP_002126.2](#)

RefSeq Size: 2699 bp

RefSeq ORF: 1797 bp

Locus ID: 3164

UniProt ID: [P22736](#)

Cytogenetics: 12q13.13

Domains: HOLI, zf-C4

Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

Protein Pathways: MAPK signaling pathway

Gene Summary:

This gene encodes a member of the steroid-thyroid hormone-retinoid receptor superfamily. Expression is induced by phytohemagglutinin in human lymphocytes and by serum stimulation of arrested fibroblasts. The encoded protein acts as a nuclear transcription factor. Translocation of the protein from the nucleus to mitochondria induces apoptosis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2011]

Transcript Variant: This variant (1) differs in the 5' structure, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 4. The encoded isoform (1) has a shorter N-terminus compared to isoform 3. Variants 1 and 2 encode the same isoform.