

Product datasheet for RC220677

NR2E3 (NM_016346) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NR2E3 (NM_016346) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NR2E3
Synonyms: ESCS; PNR; rd7; RNR; RP37
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC220677 representing NM_016346
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGACCAGACCAACAGCTCTGATGAGCTCCACAGTGGCTGCAGCTGCGCCTGCAGCTGGGGCTGCCT
CCAGGAAGGAGTCTCCAGGCAGATGGGGCTGGGGAGGATCCCACAGGCGTGAGCCCCTCGCTCCAGTG
CCGCGTGTGCGGAGACAGCAGCAGCGGGAAGCACTATGGCATCTATGCCTGCAACGGCTGCAGCGGCTTC
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AGGCCACCGCAACCAGTGCCAGGCCTGCCGGTGAAGAAGTGCCTGCAGCGGGGATGAACCAGGACGC
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TCTTCTCCCCCTGCGGCCTGGACAGCATCCATGAGACCTCGGCTCGCCTACTCTCATGGCCGTCAAGT
GGGCAAGAACCTGCCTGTGTTCTCCAGCCTGCCCTCCGGGATCAGGTGATCCTGCTGGAAGAGGCGTG
GAGTGAACCTTTCTCCTCGGGCCATCCAGTGGTCTCTGCCTTGACAGCTGTCTCTGCTGGCACCG
CCCGAGGCCTCTGCTGCCGGTGGTGCCAGGGCCGGCTCAGCTGGCCAGCATGGAGACCGGTGCTCTGCT
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CCTCTTCAAGCCAGAGACGCGGGCCTGAAGGATCCTGAGCACGTAGAGGCCCTGCAGGACCAGTCCCAA
GTGATGCTGAGCCAGCACAGCAAGGCCACCACCCAGCCAGCCCGTGAGG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC220677 representing NM_016346
Red=Cloning site Green=Tags(s)

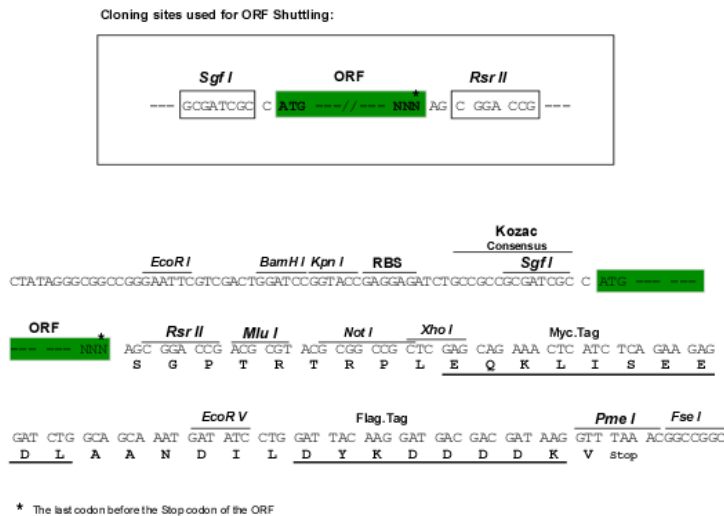
METRPTALMSSTVAAAAPAAGAASRKESPGRWGLGEDPTGVSPSLQCRVCGDSSSGKHYGIYACNGCSGF
 FKRSVRRRLIYRCQVAGMCPVDKAHRNQCQACRLKKCLQAGMNQDAVQNERQPRSTAQVHLDSMESNTE
 SRPELVAPPAPAGRSRPGPTPMSAARALGHHFMSLITAETCAKLEPEDADENIDVTSNDPEFPSSPYS
 SSSPCGLDSIHETSARLLFMAVKWAKNLPVFSSLPFRDQVILLEEAWSELFLLGAIQWSLPLDSCPLLAP
 PEASAAGGAQGRLTLASMETRVLQETISRFRALAVDPTEFACMKALVLFKPTRGLKDPEHVEALQDQSQ
 VMLSQHSKAHHP SQPVR

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6187_c12.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_016346

ORF Size: 1101 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_016346.4](#)

RefSeq Size: 2108 bp

RefSeq ORF: 1104 bp

Locus ID: 10002

UniProt ID: [Q9Y5X4](#)

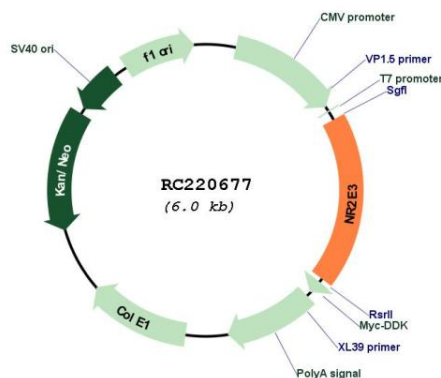
Cytogenetics: 15q23

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

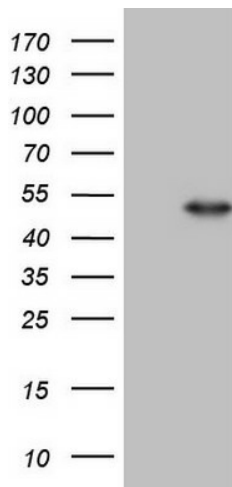
MW: 39.6 kDa

Gene Summary: This protein is part of a large family of nuclear receptor transcription factors involved in signaling pathways. Nuclear receptors have been shown to regulate pathways involved in embryonic development, as well as in maintenance of proper cell function in adults. Members of this family are characterized by discrete domains that function in DNA and ligand binding. This gene encodes a retinal nuclear receptor that is a ligand-dependent transcription factor. Defects in this gene are a cause of enhanced S cone syndrome. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

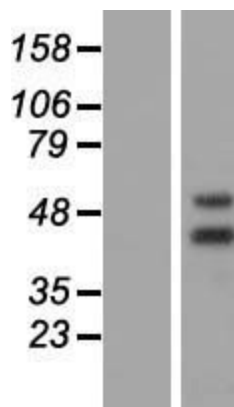
Product images:



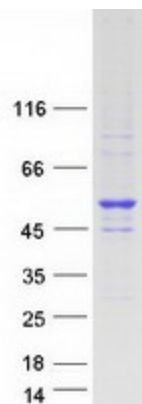
Circular map for RC220677



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NR2E3 (Cat# RC220677, 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-NR2E3 (Cat# [TA806203]). Positive lysates [LY429495] (100ug) and [LC429495] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY414039]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220677 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NR2E3 protein (Cat# [TP320677]). The protein was produced from HEK293T cells transfected with NR2E3 cDNA clone (Cat# RC220677) using MegaTran 2.0 (Cat# [TT210002]).