

Product datasheet for **RG220677**

NR2E3 (NM_016346) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NR2E3 (NM_016346) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NR2E3
Synonyms:	ESCS; PNR; rd7; RNR; RP37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220677 representing NM_016346 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGACCAGACCAACAGCTCTGATGAGCTCCACAGTGGCTGCAGCTGCGCCTGCAGCTGGGGCTGCCT
CCAGGAAGGAGTCTCCAGGCAGATGGGGCTGGGGAGGATCCCACAGGCGTGAGCCCTCGCTCCAGTG
CCGCGTGTGCGGAGACAGCAGCAGCGGGAAGCACTATGGCATCTATGCCTGCAACGGCTGCAGCGGCTTC
TCAAGAGGAGCGTACGGCGGAGGCTCATCTACAGGTGCCAGGTGGGGCAGGGATGTGCCCGTGGACA
AGGCCACCGCAACCAGTGCCAGGCCTGCCGGTGAAGAAGTGCCTGCAGCGGGGATGAACCAGGACGC
CGTGACAGAACGAGCGCCAGCCGGAAGCACAGCCAGGTCCACCTGGACAGCATGGAGTCCAACACTGAG
TCCCGGCCGGAGTCCCTGGTGGCTCCCCGGCCCCGGCAGGGCGCAGCCACGGGGCCCCACCCATGT
CTGCAGCCAGAGCCCTGGGCCACCACTTCATGGCCAGCCTTATAACAGCTGAAACCTGTGCTAAGCTGGA
GCCAGAGGATGCTGATGAGAATATTGATGTCCAGCAATGACCTGAGTTCCTCTCCTCACTACTCC
TCTTCTCCCCCTGCGGCTGGACAGCATCCATGAGACCTCGGCTCGCCTACTCTTCATGGCCGTCAAGT
GGGCAAGAACCTGCCTGTGTTCTCCAGCCTGCCCTCCGGGATCAGGTGATCCTGCTGGAAGAGGCGTG
GAGTGAACCTTTCTCCTCGGGCCATCCAGTGGTCTCTGCCTTGACAGCTGTCTCTGCTGGCACCG
CCGAGGCCTCTGCTGCCGGTGGTGCCAGGGCCGGCTCAGCTGGCCAGCATGGAGACGGTGTCTGCT
AGGAACTATCTCTCGGTTCCGGGCAATTGGCGGTGGACCCACGGAGTTTGCCTGCATGAAGGCCTTGGT
CCTCTTCAAGCCAGAGACGCGGGCCTGAAGGATCCTGAGCACGTAGAGGCTTGCAGGACCAGTCCCAA
GTGATGCTGAGCCAGCACAGCAAGGCCACCACCCAGCCAGCCCGTGAGG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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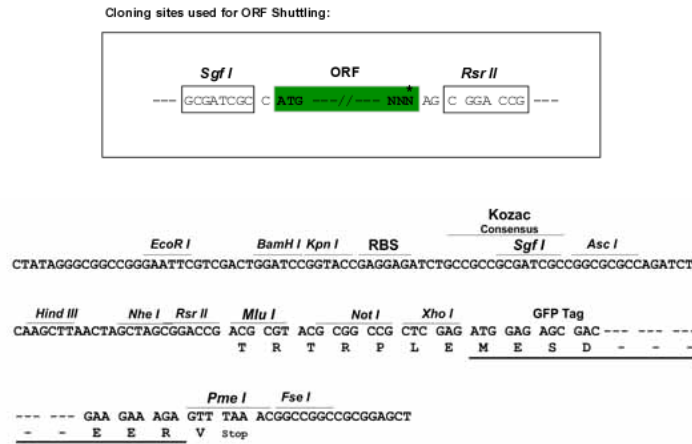
Protein Sequence: >RG220677 representing NM_016346
 Red=Cloning site Green=Tags(s)

METRPTALMSSTVAAAAPAAGAASRKESPGRWGLGEDPTGVSPSLQCRVCGDSSSGKHYGIYACNGCSGF
 FKRSVRRRLIYRCQVAGMCPVDKAHRNQACRLKKCLQAGMNQDAVQNERQPRSTAQVHLDMSMESNTE
 SRPELVAPPAPAGRSRPGPTPMSAARLGHFFMASLITAETCAKLEPEDADENIDVTSNDPEFPSSPYS
 SSSPCGLDSIHETSARLLFMAVKWAKNLPVFSSLPFRDQVILLEEAWSELFLLGAIQWSLPLDSCPLLAP
 PEASAAGGAQGRLLTASMETRVLQETISRFRALAVDPTEFACMKALVLFKPETRGLKDPEHVEALQDQSQ
 VMLSQHSKAHHP SQPVR

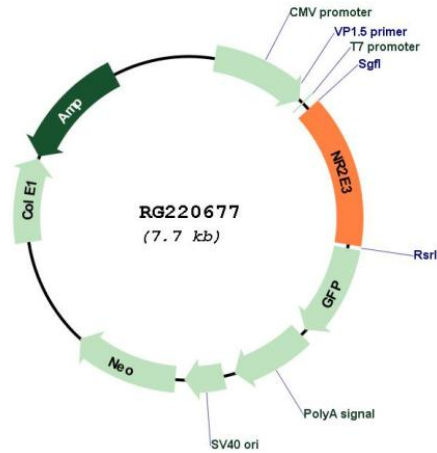
SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



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:	<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.
RefSeq:	NM_016346.4
RefSeq Size:	2102 bp
RefSeq ORF:	1104 bp
Locus ID:	10002
UniProt ID:	Q9Y5X4
Cytogenetics:	15q23
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
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]