

Product datasheet for SC315522

Constitutive androstane receptor (NR1I3) (NM_001077481) Human Untagged Clone

Product data:

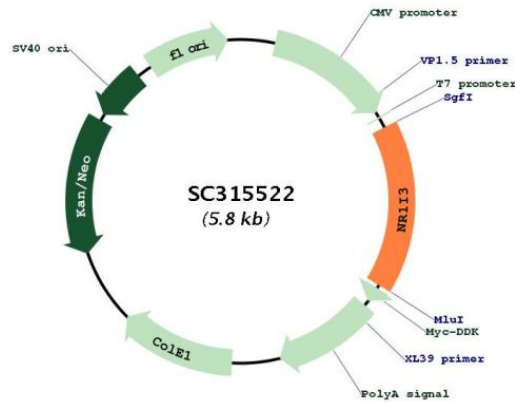
Product Type:	Expression Plasmids
Product Name:	Constitutive androstane receptor (NR1I3) (NM_001077481) Human Untagged Clone
Tag:	Tag Free
Symbol:	NR1I3
Synonyms:	CAR; CAR1; MB67
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315522 representing NM_001077481. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGCCAGTAGGGAAGATGAGCTGAGGAACTGTGTGGTATGTGGGGACCAAGCCACAGGCTACCACTTT
AATGCGCTGACTTGTGAGGGCTGCAAGGTTTCTTCAGGAGAACAGTCAGCAAAAGCATTGGTCCCACC
TGCCCCTTTGCTGGAAGCTGTGAAGTCAGCAAGACTCAGAGGCGCCACTGCCAGCCTGCAGTTGCAG
AAGTGCTTAGATGCTGGCATGAGGAAAGACATGATACTGTGGCAGAAGCCCTGGCATTGCGGCGAGCA
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GCTCATCTGTTTCATCCATCACCAGCCCTTGCCACCCTGGCCCTGTGCTGCCTCTGGTCACACACTTC
GCAGACATCAACACTTTCATGGTACTGCAAGTCATCAAGTTTACTAAGGACCTGCCCGTCTTCCGTTCC
CTGCCATTGAAGACCAGATCTCCCTTCTCAAGGGAGCAGCTGTGGAAATCTGTCACATCGTACTCAAT
ACCACTTCTGTCTCAAACACAAAACCTTCTCTCGGGCCTCTTCGCTACACAATTGAAGATGGAGCC
CGTGCTCCCTATCTTACAGACCGACCTGGAGTTACCCAGAGAGATGAGATTGATCAGCTGCAAGAGGAG
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AAGTTGCTAGGCCTGCTGGCTGAGCTCCGGAGCATTAAAGGCCCTACGGGTACCAATCCAGCACATC
CAGGGCCTGTCTGCCATGATGCCGCTGCTCCAGGAGATCTGCAGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001077481

Insert Size: 945 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001077481.2](#)

RefSeq Size: 1285 bp

RefSeq ORF: 945 bp

Locus ID:	9970
UniProt ID:	Q14994
Cytogenetics:	1q23.3
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
MW:	35.6 kDa
Gene Summary:	<p>This gene encodes a member of the nuclear receptor superfamily, and is a key regulator of xenobiotic and endobiotic metabolism. The protein binds to DNA as a monomer or a heterodimer with the retinoid X receptor and regulates the transcription of target genes involved in drug metabolism and bilirubin clearance, such as cytochrome P450 family members. Unlike most nuclear receptors, this transcriptional regulator is constitutively active in the absence of ligand but is regulated by both agonists and inverse agonists. Ligand binding results in translocation of this protein to the nucleus, where it activates or represses target gene transcription. These ligands include bilirubin, a variety of foreign compounds, steroid hormones, and prescription drugs. In addition to drug metabolism, the CAR protein is also reported to regulate genes involved in glucose metabolism, lipid metabolism, cell proliferation, and circadian clock regulation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2020]</p> <p>Transcript Variant: This variant (4) lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. The resulting protein (isoform 4) is shorter than isoform 1.</p>