

Product datasheet for RC213288

Constitutive androstane receptor (NR1I3) (NM_001077470) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Constitutive androstane receptor (NR1I3) (NM_001077470) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Constitutive androstane receptor
Synonyms:	CAR; CAR1; MB67
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213288 representing NM_001077470 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCCTAAGAGAAGCAGGAGAACAGTCAGCAAAGCATTGGTCCCACCTGCCCTTTGCTGGAAGCT
GTGAAGTCAGCAAGACTCAGAGGCGCCACTGCCAGCCTGCAGGTTGCAGAAGTGCTTAGATGCTGGCAT
GAGGAAAGACATGATACTGTCGGCAGAAGCCCTGGCATTGCGGCGAGCAAAGCAGGCCACGCGGGCA
CAGCAAACACCTGTGCAACTGAGTAAGGAGCAAGAAGAGCTGATCCGGACTCCTGGGGCCCCACACCC
GCCACATGGGCACCATGTTTGAACAGTTTGTGCAGTTTAGGCCTCCAGCTCATCTGTTCCATCCATACCA
GCCCTTGCCACCTGGCCCTGTGCTGCCTCTGGTCACACACTTCGAGACATCAACACTTTCATGGTA
CTGCAAGTCATCAAGTTTACTAAGGACCTGCCCGTCTTCCGTTCCCTGCCATTGAAGACCAGATCTCCC
TTCTCAAGGGAGCAGCTGTGAAATCTGTACATCGTACTCAATACCACTTTCTGTCTCCAAACAAAA
CTTCTCTGCGGGCTCTTCGCTACACAATTGAAGATGGAGCCCGTGACCGACCTGGAGTTACCCAGAGA
GATGAGATTGATCAGCTGCAAGAGGAGATGGCACTGACTCTGCAAAGCTACATCAAGGGCCAGCAGCGAA
GGCCCCGGATCGGTTTCTGTATGCGAAGTTGCTAGGCCTGTGGCTGAGCTCCGGAGCATTAAATGAGGC
CTACGGGTACAAATCCAGCACATCCAGGGCCTGTCTGCCATGATGCCGCTGCTCCAGGAGATCTGCAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_001077470.3](#)

RefSeq Size: 1124 bp

RefSeq ORF: 843 bp

Locus ID: 9970

UniProt ID: [Q14994](#)

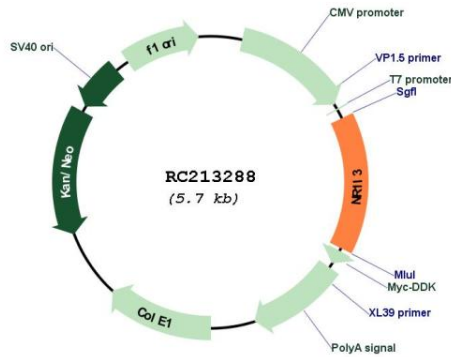
Cytogenetics: 1q23.3

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

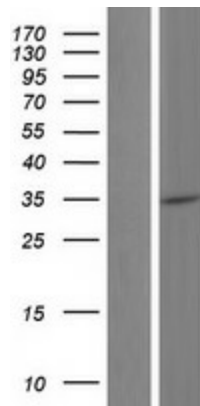
MW: 31.7 kDa

Gene Summary: 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]

Product images:



Circular map for RC213288



Western blot validation of overexpression lysate (Cat# [LY421425]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213288 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).