

Specifications:

Gene:	<i>mSUCNR1</i>
Accession:	NP_115776
Insert size:	967bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

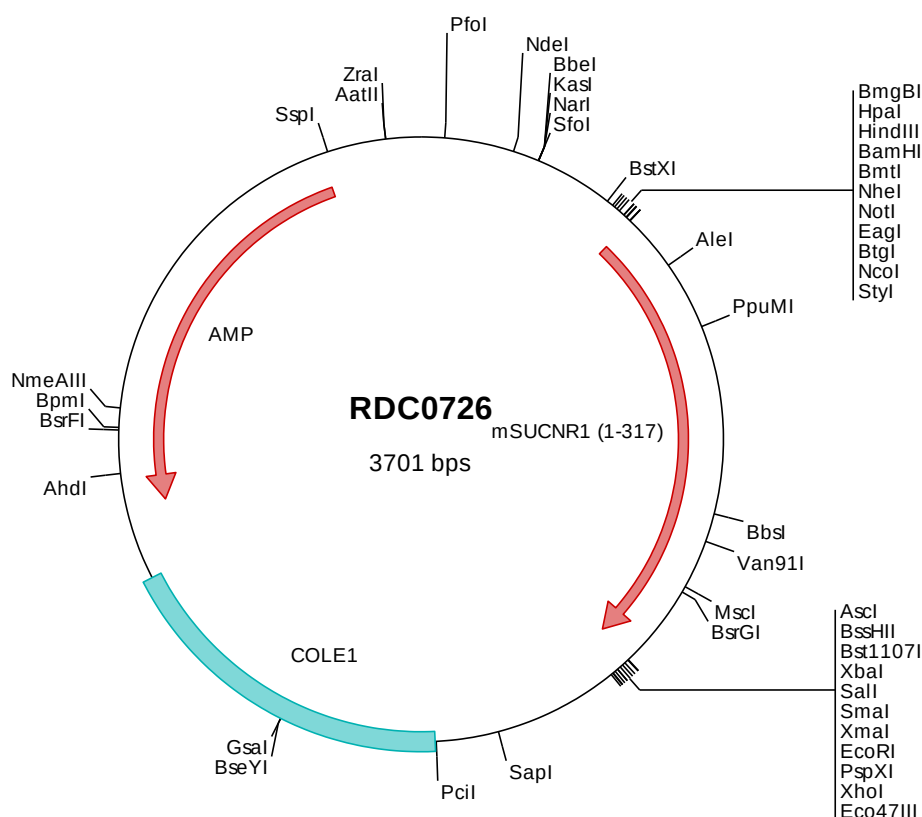
mSUCNR1/GPR91 cDNA Plasmid

Sucnr1 succinate receptor 1
[*Mus musculus* (house mouse)]

Also known as: Gpr91

Summary:

GPR91 is a succinate receptor expressed in retinal ganglion cells that induces vascular endothelial growth factor (VEGF) expression. SUCNR1 signal transduction includes endothelial Ca²⁺, the production of NO and prostaglandin (PGE₂), and their paracrine actions on adjacent renin-producing cells. It may modulate kidney function and help remove metabolic waste products.





> RDC0726 Plasmid DNA Sequence

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1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccc
101  tcaggggcgc tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaagggt ggatgtgctg caaggcgatt aagtgggta acgccagggt tttccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggaatccgata tccgtagcgc ggcgcgccacc atggcacaga atttatcttg tgagaattgg ttggcaacag aggctatctt
501  gaataagtac tacctctctg cattttatgc aatcgagtto atttttggac tgcttgggaa tgtoactgtg gtgttoggct acctottctg catgaagaac
601  tggaacagca gcaatgtcta tctttttaac ctttccatct ctgactttgc tttctgtgct acccttccca tctgataaaa gagttatgac aatgataagg
701  ggacatctgg agatgtttct tgtataagca acogatatgt gcttcacacc aacctctaca ccagatcctt cttctcactt ttcattagca tggaccgata
801  tctgtctatg aagtaccctt tccgagaaca ctttctacaa aagaaggaaat ttgccatttt aatctcgctg gctgtotggg ccttagtgac cttagaagtt
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3201 ccaagtcatt ctgagaatag tgtatcgccg gaccgagttg ctcttgcccg gcgtcaatac gggataatac cgcgccacat agcagaactt taaaagtgtc
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3701 c
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> RDC0726 Translated Insert Sequence

```
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201  ffyykmvvl krrsqgata lpldkpqrly vlavvfisil ftpyhmrnl riasrldswp ggctqkaiks iytlttrplaf insainpify flmgdhyrem
301  liskfrqyfk sltsfrt
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