

Specifications:

| | |
|----------------|------------------|
| Gene: | <i>hSSTR5</i> |
| Accession: | AAK61266 |
| Insert size: | 1108bp |
| 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

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|-------------|---|
| 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. |

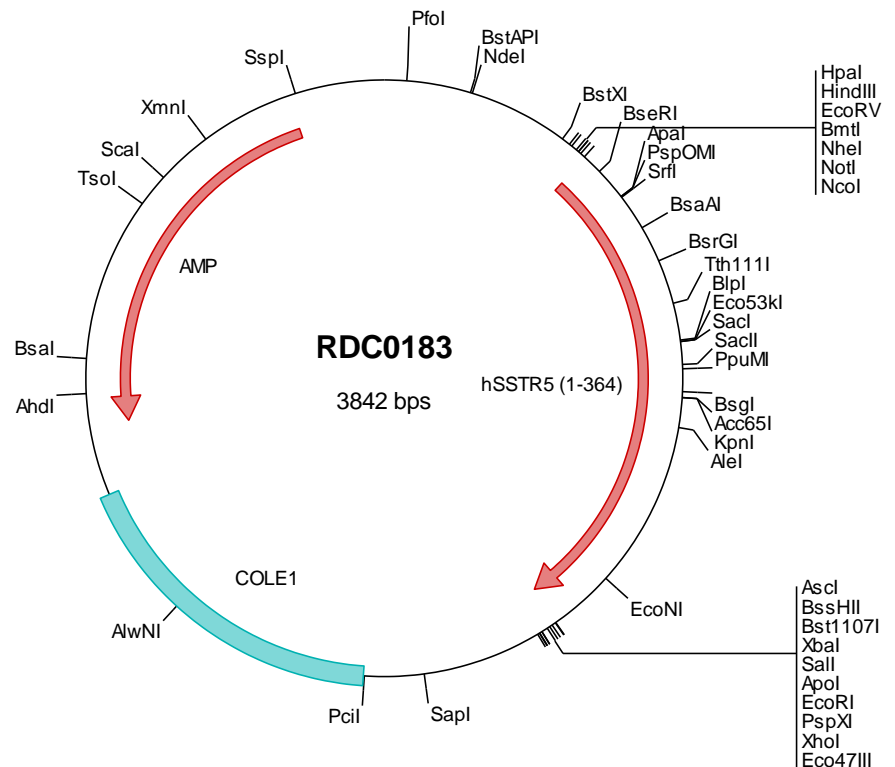
hSSTR5 cDNA Plasmid

SSTR5 somatostatin receptor 5 [*Homo sapiens*]

Also known as: SS-5-R

Summary:

SSTR5 is a receptor for somatostatin-28 and to a lesser extent for somatostatin-14. Somatostatin and its related peptide cortistatin exert multiple biological actions on normal and tumoral tissue targets by interacting with somatostatin receptors (SSTRs). SSTR5 is expressed in adult pituitary gland, heart, small intestine, adrenal gland, cerebellum and fetal hypothalamus. The activity of SSTR5 is mediated by G proteins which inhibit adenylyl cyclase, and different regions of this receptor molecule are required for the activation of different signaling pathways. A mutation in this gene results in somatostatin analog resistance.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0183 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attgcatt caggctgcgc aactgttggg aaggcgatc ggtcgggccc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccagggt ttcccgatc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tgcgtagcgc gggcgcacc atggagcccc tttcccagc ctccacgcc agctggaacg cctcctcccc
501 gggggctgcc tctggagcgg gtgacaacag gacgctggtg gggcggcgc cctcggcagg gcccggggcg gtgctggtgc ccgtgctgta cctgctggtg
601 tgtgcccggc ggctggggcg gaaacgcctg gtcactacag ttggtctgctg cttcggcaag atgaagaccg taccacaacat ctacattctc aacctggcag
701 tggcgcagct cctgtacatg ctggggctgc ctttctctgc cacgcagaac gccgcctcct tctggccctt cggcccctgc ctgtgcgccg ttgtcaatgac
801 gctggacggc gtaaaccaag taccagctg cttctgcctg acagctatga gctggaccg ctacctggca gtggtgcacc cgtgagctc ggcccctgg
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1601 tctagcttgg cgtaaatcatg gtcatactg tttctctgtg gaaattgtta tccgctcaca attccacaca acatacagc cgaagacata aagtgtaaag
1701 cctggggctgc ctaatgagtg agctaactca cattaattgc gttgcgctca ctcccgcctt tccagctggg aaacctgtcg tgccagctgc attaatgaat
1801 cggccaacgc gcggggagag gcggtttgctg tattggggcg tcttccgctt cctcgtctac tgactcgtg cgtcgtgctg ttcggtcgtg gcgagcgtta
1901 tcagctcact caaaggcggg aatacgggta tccacagaat cagggggata cgcaggaag aacatgtgag caaaaggcca gcaaaaggcc aggaaccgta
2001 aaaaaggcgc gttgctggcg tttttccata ggctccgccc cctgacgag catcacaaaa atcgacgctc aagtcagagg tggcgaacc cgacaggaact
2101 ataaagatac caggcgtttc ccctcgaag ctccctcgtg cgtctcctg tccgaccct gccgcttacc ggatacctgt ccgcttctct cctctcgga
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2301 accgtgctgc cttatccggt aactatcgtc ttgagtccaa cccggtaaaga cagacttat cgccactggc agcagccact ggtaacagga ttagcagagc
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2501 accttcgcaa aaagagttgg tagctcttga tccggcaaac aaaccaccgc tggtagcggg ggtttttttg tttgcaagca gcagattacg cgcagaaaaa
2601 aaggatctca agaagatcct ttgatctttt ctacggggtc tgacgctcag tggaaacgaaa actcacgtta agggattttg gtcagagat tatcaaaaag
2701 gatcttcacc tagatccttt taaattaaaa atgaagtttt aaatcaatct aaagtatata tgagtaaac tggctctgaca gttaccaatg cttaatcagt
2801 gaggcaccta tctcagcag ctgtctatct cgttcatcca tagttgctg actccccgct gtgtagataa ctacgatac ggagggctta ccatctggcc
2901 ccagctgctgc aatgataccg cgagaccacc gctcaccggc tccagattta tcagcaataa accagccagc cggaaaggcc gagcgcagaa gtggtcctgc
3001 aactttatcc gcctccatcc agtctattaa ttggtgcccg gaagctagag taagtgttc gccagttaat agtttgccca acgttgttgc cattgtcaca
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3401 cgggataata ccgcgcaca tagcagaact ttaaaagtgc tcatcatgtg aaaacgttct tggggcgcaa aactctcaag gatcttacc gttgtgagat
3501 ccagttcgat gtaaccact cgtgcaccca actgatcttc agctatctt actttcaaca cgtttctggt gtgagcaaaa acaggaaggc aaaatgccgc
3601 aaaaaaggga ataaggcgca caggaaatg ttgaatactc atactcttc tttttcaata ttattgaagc atttatcagg gttattgtct catgagcggc
3701 tacatatttg aatgatttta gaaaaataaa caaatagggg ttcgcgcac atttccccga aaagtgcac ctgacgtcta agaaccatt attatcatga
3801 cattaaccta taaaataatg cgtatcacga gcccctttcg tc

> RDC0183 Translated Insert Sequence

1 meplfpastp swmasspgaa sgggdnrllv gpapsagara vlvplvlllv caaglggntl viyvvlrfak mktvtniyil nlavadvlym lglpflatqn
101 aasfwpfpgv lcrlvmtldg vngftsvfcl tvmsvdryla vvhplssarw rrprvaklas aaawvlslcm slpllvfadv qeggtcnasw pepvglwgav
201 fiiytavlgf fapllviclc yllivkvra agvrvcvrr rserkvtrmv lvvvlvfagc wlpfftniv nlaavalpqp asaglyffvv ilsyanscan
301 pvlygflsdn frqsfqkvlc lrksgakda datelrpdri rqqeatppa hraaanglmq tskl