*h*KiSS1R/GPR54 VersaClone cDNA

Catalog Number: RDC0263

Specifications:

Gene:	*h*KiSS1R/GPR54
Accession:	AAK83235
Insert size:	1209bp
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

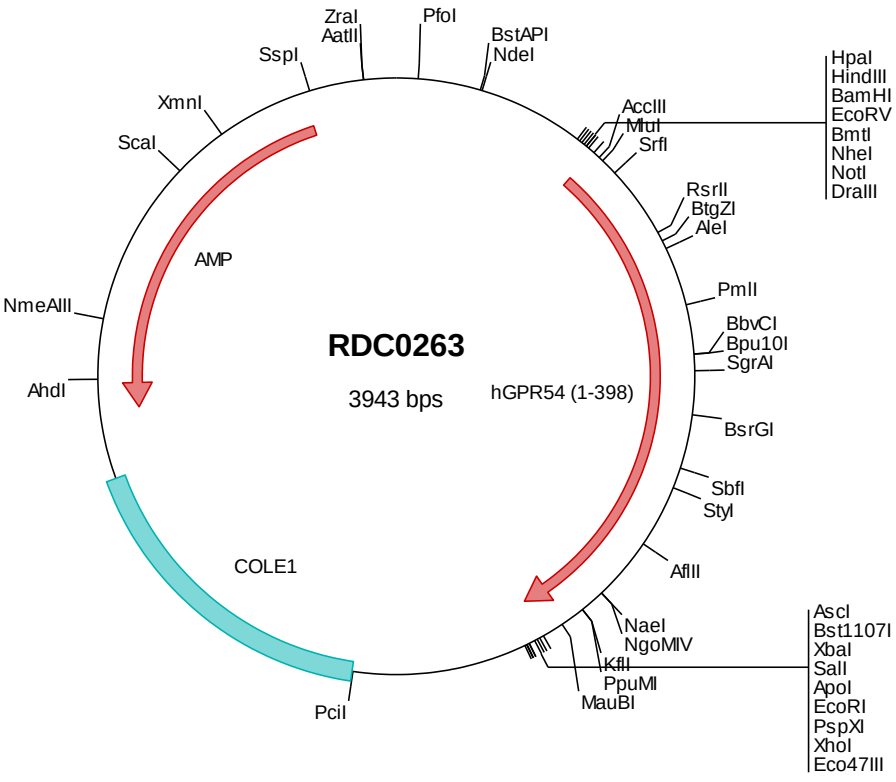
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*KiSS1R/GPR54 cDNA Plasmid

KISS1R KISS1 receptor [*Homo sapiens*]

Also known as: GPR54; AXOR12; HOT7T175

Summary:
GPR54 is a galanin-like G protein-coupled receptor that binds metastin, a peptide encoded by the metastasis suppressor gene KISS1. GPR54 is highly expressed in placenta, pituitary, and pancreas, whereas KISS1 mRNA is mainly expressed in placenta, hypothalamus, striatum, and pituitary. The tissue distribution of GPR54 suggests that it is involved in the regulation of endocrine function, and this is supported by the finding that this gene appears to play a role in the onset of puberty. Mutations in GPR54 have been associated with hypogonadotropic hypogonadism and central precocious puberty. Overall survival is improved in cancers with high expression of GPR54.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0263 Plasmid DNA Sequence

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 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgcacaccg tggctacgtc cggacccaac gcgtcctggg gggcaccggc
 501  caacgcctcc ggctgcccgg gctgtggcgc caacgcctcg gacggcccag tcccttcgcc gcgggccgtg gacgcctggc tcgtgccgct cttcttcgcg
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 701  tggcggccac ggacgtgacc ttcctcctgt gctgcgtccc cttcacggcc ctgctgtacc cgctgcccgg ctgggtgctg ggcgacttca tgtgcaagtt
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 901  ctgcaccgcc gcacgccccg cctggcgctg gctgtcagcc tcagcatctg ggtaggctct gcggcggtgt ctgcgccggt gctcgccctg caccgcctgt
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1601  ccgcgcgcgg gctgtgcgtc ctgggggagg acaacgcccc tctctgaggc gcgccagtat actctagagt cgacacccgg ggaattcctc gagcgctcgt
1701  ctctagcttg gcgtaatcat ggtcatagct gtttcctgtg tgaaattgtt atccgctcac aattccacac aacatacgag ccggaagcat aaagtgtaaa
1801  gcctggggtg cctaatgagt gagctaactc acattaattg cgttgcgctc actgcccgct ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa
1901  tcggccaacg cgcggggaga ggcggtttgc gtattgggcg ctcttccgct tcctcgctca ctgactcgct gcgctcggtc gttcggctgc ggcgagcggt
2001  atcagctcac tcaaaggcgg taatacggtt atccacagaa tcaggggata acgcaggaaa gaacatgtga gcaaaaggcc agcaaaaggc caggaaccgt
2101  aaaaaggccg cgttgctggc gtttttccat aggctccgcc cccctgacga gcatcacaaa aatcgacgct caagtcagag gtggcgaaac ccgacaggac
2201  tataaagata ccaggcgttt cccccтggaa gctccctcgt gcgctctcct gttccgaccc tgccgcttac cggatacctg tccgcctttc tcccttcggg
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2901  tgaggcacct atctcagcga tctgtctatt tcgttcatcc atagttgcct gactccccgt cgtgtagata actacgatac gggagggctt accatctggc
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3601  tccagttcga tgtaacccac tcgtgcaccc aactgatctt cagcatcttt tactttcacc agcgtttctg ggtgagcaaa aacaggaagg caaaatgccg
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3801  atacatattt gaatgtattt agaaaaataa acaaataggg gttccgcgca catttccccg aaaagtgcca cctgacgtct aagaaaccat tattatcatg
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> RDC0263 Translated Insert Sequence

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 101  llyplpgwvl gdfmckfvny iqqvsvqatc atltamsvdr wyvtvfplra lhrrtprlal avslsiwvgs aavsapvlal hrlspgpray cseafpsral
 201  erafalynll alyllpllat cacyaamlrh lgrvavrpap adsalqgqvl aeragavrak vsrlvaavvl lfaacwgpiq lflvlqalgp agswhprsya
 301  ayalktwahc msysnsalnp llyaflgshf rqafrrvcpc aprrprrprr pgpsdpaaph aelhrlgshp aparaqkpgs sglaarglcv lgednapl
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