

Specifications:

Gene:	hKiSS1R/GPR54
Accession:	NP_115940
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.

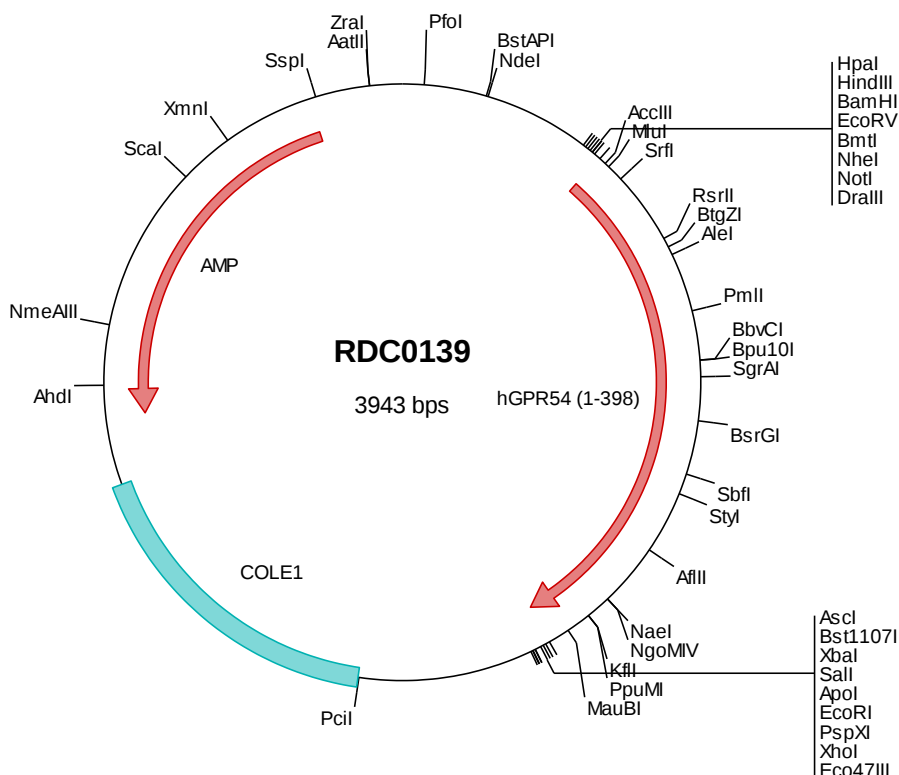
hKiSS1R/GPR54 cDNA Plasmid

KISS1R KISS1 receptor [*Homo sapiens*]

Also known as: GPR54; AXOR12; HOT7T175

Summary:

GPR54 is a galanin-like G protein-coupled receptor that binds metastatin, 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.





> RDC0139 Plasmid DNA Sequence

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1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgc tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggaatgtctg caaggcgatt aagtttggta acgccagggt tttccagtc acgacgttgt aaaacgacgg ccagtgattt
401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgcacac atgcacacgc tggctacgtc cggacccaac gcgtcctggg gggcacccgc
501  caacgcctcc ggetgcgcgc gctgtggcgc caacgcctcg gaecggccag tcccttcgcc gcgggcgctg gacgcctggc tegtgcctgt cttcttcgcg
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701  ttggcggcac ggacgtgacc ttctcctgt gctgcgtccc cttcacggcc ctgctgtacc cgtgcgccgg ctgggtgtctg ggcgaactca tgtgcaagtt
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> RDC0139 Translated Insert Sequence

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201  erafaly1n1l aly1lpl1at cacyaamlrh lgrvavr1pap adsalqgqvl aeragavrak vsrlvaavvl lfaacwgpiq lf1vlqalgp agswhprsy1a
301  ayalktwahc msysnsalnp llyaf1lgshf rqafrv1cpc aprrrpr1rpg psdp1aaph ae1lrlgshp aparaqkpgs sglaarg1cv lgednap1l
```