

## Specifications:

Gene:	mKiSS1R/GPR54
Accession:	NP_444474
Insert size:	1204bp
Concentration:	10µg at 0.2µg/µL

## mKiSS1R/GPR54 cDNA Plasmid

Kiss1r KISS1 receptor [ *Mus musculus* ]

Also known as: Gpr54; KiSS-1

### Summary:

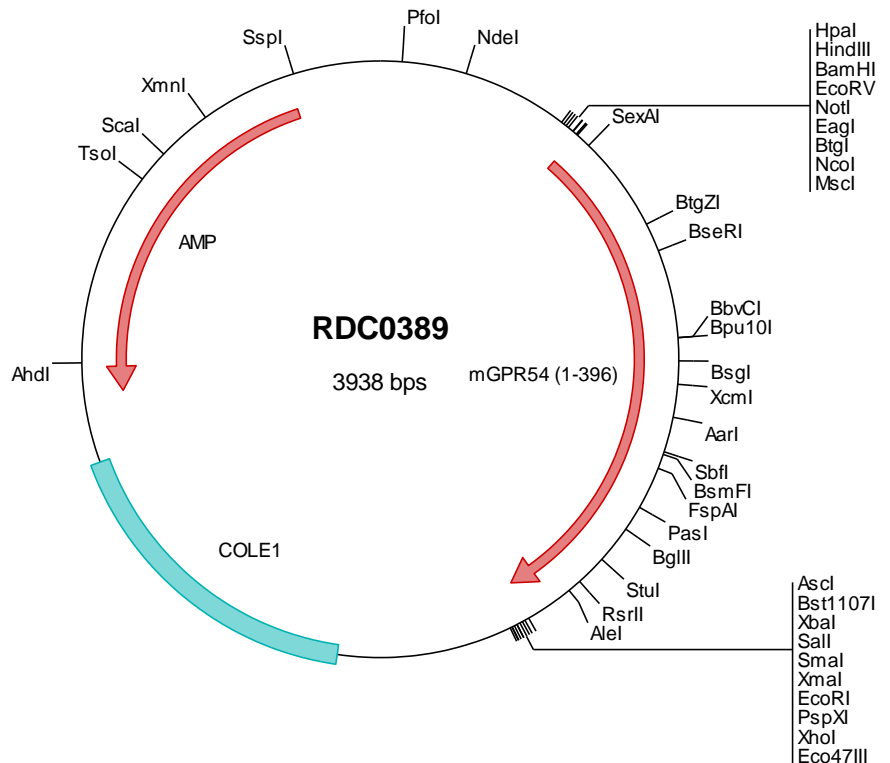
GPR54 is a galanin-like G protein-coupled receptor that binds metastin, a peptide encoded by the metastasis suppressor gene KISS1. GPR54 is highly expressed in placenta, pituitary, and pancreas, whereas KISS1 mRNA is mainly expressed in placenta, hypothalamus, striatum, and pituitary. The tissue distribution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

## 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.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0389 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg teggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcggggcc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acggcagggt tttccagtc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc gggcgcacc atggccacc agggcacatt ggctcccaat gtgacctggt gggctcogtc
501 caacgcttca ggatgccag gctgoggtgt caacgctcg gatgaccag gctctgcgc aaggccctg gatgcctggc tggttccctt gttttogct
601 acaactatgt tgcttgggct ggtoggaaac tcattggtca totacttat ctgccgccac aagcacatgc agacagttac caactctac atcgtaacc
701 tggctgccac agacgtcaact ttctactgt gctgctgccc ctaccgccca ctctctacc cgtgccccc ctgggtgctg ggagacttca tbtgcaaat
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1701 gcttggcgta atcatggtca tagctgtttc ctggtgaaa ttgttatccg ctcaaatc cacacaacat acgagccgga agcataaagt gtaaaagcctg
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2001 ctcaactcaa ggcggtaata cggttatcca cagaatcagg ggataacgca gaaagaaca tbtgagcaaa aggccagcaa aaggccagga accgtaaaaa
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2201 agataccagg cgtttccccc tggagctcc ctctgtgct ctctctgttc gaccctgcg cttaccggat acctgtccgc ctttctccct tccgggaagc
2301 tggcgctttc tcaatgctca cgtctaggt atctcagttc ggtgtaggtc gttcgtctca agctgggctg tgtgcaagaa cccccgttc agcccagccg
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2601 tcggaaaaag agttggtagc tttgatccg gcaaaaaaac caccgctggt agcgggtggt tttttgttg caagcagcag attacgcgca gaaaaaagg
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2901 caactatctc agcagatctgt ctatctctg catccatagt tgcctgactc cccgtctgtt caataaacca gccagccgga agggccgagc gcagaagtgg tctctcaact
3001 tgctgcaatg ataccgcgag acccagcctc accgctcca gatttatcag cttagagtaag tagttcgcca gttaatagtt tgcgcaactg tgttggcatt gctacaggca
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3501 ataataccgc gccacatagc agaactttaa aagtgtctat cactgtctcat cactgtctcat cactgtctcat cactgtctcat cactgtctcat
3601 ttcgatgtaa cccactgctg caaccaact atctctcagca tcttttact tcaaccagcgt tctctgggtg gcaaaaaacag gaaggcaaaa tgcgcaaaa
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3901 aacctataaa aataggcgta tcacgagccc ctttctgct

> RDC0389 Translated Insert Sequence

1 mateatlpan vtwwapsnas gpcgcvnas ddpgsaprpl dawlvpfffa tlmllglvgn slviyvichr khmqtvtmfy ianlaatdvt fllccvpfta
101 llyplpawvl gdfmckfvny iqqvsvqatc atltamsvdr wyvtvflpra lhrrtprlal avslsiwvgs aavsapvlal hrlspgprty cseafpsral
201 erafalynll alyllpllat cacygamlrh lgraavrpap tdgalqgqll aqravartk vsrlvaavvl lfaacwgpiq flflvlqalgp sgawhprsyra
301 ayavkiwahc msynsalnp llyafllshf rqafrvcpc crqqrprpt sahsdraath tvphsraahp vrirspepvn pvvrspscaqs ertasl