

Specifications:

Gene:	mRXFP4
Accession:	AAI07270
Insert size:	1257bp
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.

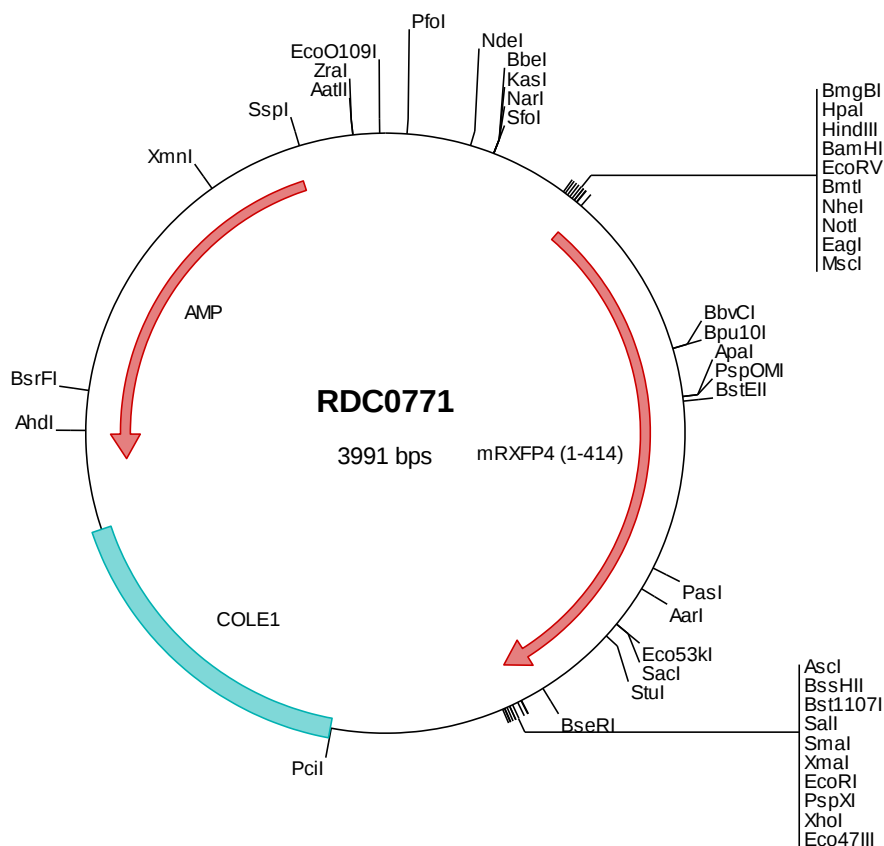
mRXFP4/GPCR142 cDNA Plasmid

Rxfp4 relaxin family peptide receptor 4 [*Mus musculus* (house mouse)]

Also known as: SALPR; Gpr100; Rln3r2; GPCR142

Summary:

RXFP4 is a G protein-coupled receptor that is detected in brain, kidney, testis, thymus, placenta, prostate, salivary gland, thyroid, and colon. It is a receptor for INSL5 and RLN3/relaxin-3. RXFP4 is only capable of functioning in the presence of Galpha16.





> RDC0771 Plasmid DNA Sequence

```
1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgc tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gttgtaaata
201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggaagtgtct caaggcgatt aagtttggga acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggaatccgata tcgctagcgc ggccgcacac atggccacac ccaattctct tgcctctctg cccacctctc tctgggtcaa
501  tggctctgga gacagctgct tgagtactga cgggtgctgccc atgcctgtcc agttccttgt tctgaggatc atggttgcaac tggcctatgg actttaggt
601  atcattggct tgctgggaaa ttggccgcta ctgtgggttc taggtaactg tggtcagcat gtgcccgccc tgtctctgta tacctttgtc ttcagcctgg
701  ctctagcaga cttggggctg gcccttactc tccctttctg ggcaaccgag tcagcaatgg acttccactg gcctttcgga agtgccctct gcaaggtagt
801  cctgaccacc accgtctctca gcatctatgc cagcaccttc ctaatcacag cactgagtat cgcgctatac tgggtggtag ccatggctgt gggaccaggt
901  agtcacctct cagtcttttg ggcgcgtgtg gtcacctggc cagtgtgggt ggagctgccc ctggtgactg tgcccacagc aatctttggg gctgaagttg
1001 agttgtgggg cgtgcgcctc tgtctctgct gtttcccag cagatactgg ctgggagctt accagctaca gaggtagtt ctggccttca tctgtccctt
1101 gggagtcatt accaccagtt acctgctgct gttggccttt ctagagcgcc agcaaaagtg caggccacga caatggcagg acagccgagt ggtagccgc
1201 tctgtccgtg tctgtgtggc ttctctgccc ctctgctggg ttcccaacca ttagtcaact ctctgggaaa ttctggttaag gtttagctg gtgcccgtgg
1301 acagtacttt ctacaccttt cataactaca tcttcccact caccacctgc ttggcccaca gcaacagctg cctcaacctc gtgatctatt gtctctgctg
1401 gcgggagccc cagcaggttc ttgtcagctc cttcagagct ctctggtcaa gactgtggcc tcaaaaggaag gcctgcatgg aacaaatggc cctcaaggag
1501 gtaggcggga gaacggttagc cagcacccag gagagtggct cttctaggac acacacaaac acaatggaac acctggatga aggatgcagc ctgaaacact
1601 tcccttctga gacctatcag gggcagagcc cacagattct agggaggagc agctgctctc tcagtcaggg tgctgtgtcc ccaggagaag tctgaggcgc
1701 gccagtatac tctagagtgc acaccgggg aattcctcga gcgctcgtct ctgacttggc gtaatcatgg tcatagctgt ttctgtgtg aaattgttat
1801 ccgctcaca ttcacacaaa catacagacc ggaagcataa agtgtaaaagc ctggggtgcc taatgagtga gctaactcac attaatgctg ttgcgctcac
1901 tgcccgtctt ccagtcggga aacctgtcgt gccagctgca ttaatgaatc ggccaacgcg cggggagagg cggtttgcgt attgggcgct cttccgcttc
2001 ctcgctcact gactcgtgct gctcggctgt tcggctgcgg cgagcgggat cagctcactc aaaggcggtg atacggttat ccacagaatc aggggataac
2101 gcaggaaaag acatgtgagc aaaaggccag caaaaggcca ggaaccgtaa aaaggccgcg ttgctggcgt ttttccatag gctccgcccc cctgacgagc
2201 atcacaaaaa tcgacgctca agtcagaggt ggccaacccc gacaggacta taaagatacc aggcgtttcc ccctggaagc tccctcgtgc gctctcctgt
2301 tccgacctcg ccgcttaccg gatacctgtc gcctcttctc ccttcgggaa gcgtggcgct ttctcaatgc tcacgctgta ggtatctcag ttccgtgtag
2401 gtcgttgcgt ccaagctggg ctgtgtgcac gaaccccccg ttcagccgca ccgctgcgcc ttatccggtg actatcgtct tgagtccaac ccggtgaagc
2501 acgacttata gccactggca gcagccactg gtaacaggat tagcagagcg aggtatgtag gcggtgctac agagttcttg aagtgtggc ctaactacgg
2601 ctacactaga aggacagtat ttggtatctg cgctctgctg aagccagtta ccttcggaag aagagttggt agctcttgat ccggcaaaac aaccacgct
2701 ggtagcgggt gtttttttgt ttgcaagcag cagattacgc gcagaaaaaa aggatctcaa gaagatcctt tgatcttttc tacgggtctc gacgctcagt
2801 ggaacgaaaa ctcacgttaa gggatttttg tcatgagatt atcaaaaagg atcttcacct agatcctttt aaattaaaaa tgaagtttta aatcaatcta
2901 aagtatatat gagtaaaact ggtctgacag ttaccaatgc ttaatcagtg aggcacctat ctcagcgatc tgtctatttc gttcatccat agttgcctga
3001 ctccccgtcg ttagataaac tacgatacgg gagggttac catctggccc cagtgtgcca atgataccgc gagacccacg ctcaccggct ccagatttat
3101 cagcaataaa ccagccagcc ggaagggccg agcgcagaag tggctcctgca actttatccg cctccatcca gtcctattaat tgttgcggg aagctagagt
3201 aagtgttccg ccagtttaata gtttgcgcaa cgttgttgcc attgtctacg gcacgtggtg gtcacgctcg tctgttggta tggcttcatt cagctccggt
3301 tcccaacgat caaggcgagt tacatgatcc ccatgttgtt gcaaaaaaagc ggttagctcc ttcggtctoc cgatcggtgt cagaagtaag ttggcccgag
3401 tgttatcact catggttatg gcagcactgc ataattctct tactgtcatg ccattccgtaa gatgcttttc tgtgactggt gactactcaa coaagtcatt
3501 ctgagaatat tgtatcgccg gaccgagttg ctcttgcccg gcgtcaatac cgtcaataac ggcgacactt agcagaactt taaaagtgtc catctctgga
3601 aaacgtttct cgggcgcaaa actctcaagg atcttaccgc tgttgagatc cagttcgtatg taacccactc gtgcacccaa ctgatcttca gcatctttta
3701 ctttcaccag cttttctggg tgagcaaaaa caggaaaggca aaatgccgca aaaaagggaa taaggcgac acggaaatgt gtaatactca tactcttctc
3801 ttttcaatat tattgaagca ttatcagggt ttattgtctc atgagcggat acatatttga atgtatttag aaaaataaac aatataggggt tccgcgcaca
3901 tttccccgaa aatgccacc tgacgtctaa gaaaccatta ttatcatgac attaacctat aaaaatagcg gtatcacgag gccctttcgt c
```

> RDC0771 Translated Insert Sequence

```
1   matsnssasl ptfllwvngsg dsvlstdgaa mpvqflvlri mvalayglvg iigllgnlav lwvlngcgqh vpglssdtfv fslaladlgl altlpfwate
101  samdfhwpfg salckvvlvt tvlsiyastf litalsialy wvavamavgpg shlsvfwarv vtlavwvaal lvtvptaifg aevelwgvrl clrlfrpsryw
201  lgayqlqrsv lafiwplgvi ttsyllllaf lerqqrprpr qwqdsrvvar svrvlvasfa lcwvphnvt lweilvrfdl vpwdstfytf htyilpittc
301  lahsnsclnp viyclrrrep qqvlvsftra lwrllwpqrk acmegmalke vggrrtvastq esgssrthtn tmehldegcs intlilsetyq gspqpilgrs
401  scslsqaavs pgev
```