

Specifications:

Gene:	mGPR30
Accession:	NP_084047
Insert size:	1141bp
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.

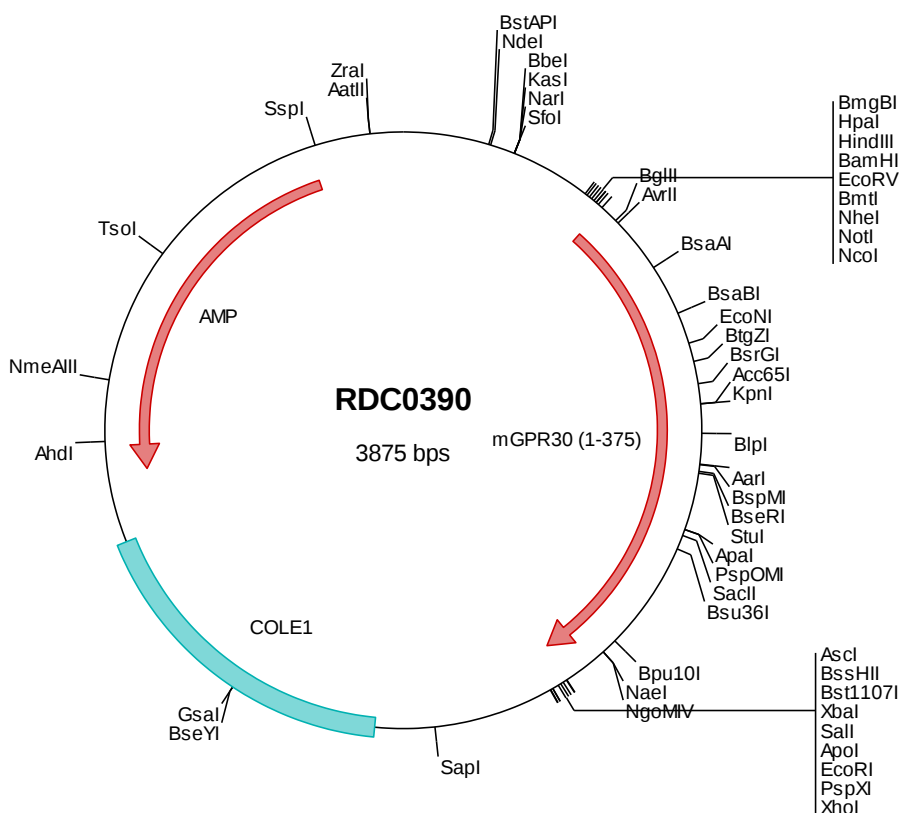
mGPER/GPR30 cDNA Plasmid

Gpr30 G protein-coupled receptor 30 [*Mus musculus*]

Also known as: Gper; Cep1; FEG-1; CMKRL2; GPCR-Br

Summary:

GPR30 is a member of the G protein-coupled receptor 1 family and encodes a multi-pass membrane protein that localizes to the endoplasmic reticulum. It binds estrogen, resulting in intracellular calcium mobilization and synthesis of phosphatidylinositol 3,4,5-trisphosphate in the nucleus. GPR30 therefore plays a role in the rapid nongenomic signaling events widely observed following stimulation of cells and tissues with estrogen.





> RDC0390 Plasmid DNA Sequence

```
1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgc tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggaatgtctg caaggcgatt aagtttggta acgccagggt tttccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggaaccgata tcgctagcgc ggccgcaccc atggatgcga ctactccagc ccaaactggt ggggtggaga tctacctagg
501  tcccgcttgg ccagccocctt ccaacagcac ccctctggcc ctcaacttgt ccctggcact gcgggaagat gccccgggga acctoactgg ggaacctctt
601  gagcatcagc agtaogtgat tgccctcttc ctctctcgcc totacaccat ctctctcttt cctattggct ttgtgggcaa catctcacc ctggttggtga
701  acatcagctt ccgggagaag atgaccatcc cagacotgta cttcatcaac ctggcggcgg ccgacotcat cctggtggct gaotccctga ttgaggtggt
801  caacctggac gagcagtaact acgacatgac agtgctctgc acctctcatgt ccctcttctt gcagatcaac atgtacagca gcgtctctt cctcactctg
901  atgagcttcg acaggtacot agcgtctggc aaggccatgc gctgtggcct cttccgcacc aagcaccacg caccgctcag ctgtggcctc atctggatgg
1001 cctcagtgtc cgcacacgtg gtgcccctta cagcggtgca cctcggcgac acggaggagg cctgtcttcg ctttgcgtgat gtcaggaggg tgcagtggtt
1101 ggaggtcaca ctgggcttca tcatgcccct cgccatcatt ggctctctgt actccctcat cgtgcgagcc ctcatccggg cccacaggca ccgcgccctg
1201 cgccacagca ggcagaaagc cctgaggatg atcttcgcag ttgtctctgt tttctctcat tctgtggtgc cggagaacgt cttcatcagt gtccacctac
1301 tgcaaggcac gcagccaggg gacactccct gcaagcagtc tttcgttcac gctcaccctt tgacaggcca catagtcaac cttgcagcct tctccaaacg
1401 ctgcttgat cccctcatct acagcttctt gggagagacc ttcaaggaca agctcaggct ctatgtggag cagtgcgggc tctgaaccgc
1501 ttctgccatg ccacgctcaa ggcgctcatt ccagacagca cagagcagtc agaggtcagg ttcagcagtg ctgtgtaaag gcgcgcag
1601 gtcgacaccc ggggaatttc tcgagcgctc gtctctagct tggcgtaatc atggctatag ctgtttctct tgtgaaattg ttatccgctc acaattccac
1701 acaacatacg agccggaagc ataaaagtga aagcctgggg tgccaatga gtgagctaac tcacattaat tgcgttgccg tcactgcccg ctttccagtc
1801 gggaaacctg tcgtgccagc tgcattaatg aatcggccaa cgcgcgggga gaggcggttt gcgtattggg cgctcttcg cttctcgct cactgactcg
1901 ctgcgctcgg tcgttcggct gcggcgagcg gtcacagctc actcaaaagg ggttaatacgg ttatccacag aatcagggga taacgcagga aagaacatgt
2001 gagcaaaaag ccagcaaaaag gccaggaacc gtaaaaaggc cgcgttgctg gcgtttttcc ataggctccg gaggatcaca aaaatcgagc gagcatcaca
2101 ctcaagtcag aggtggcgaa acccgacagg actataaaga taccaggcgt tccccctgg aagctccctc gtgcgctctc ctgttccgac cctgccgctt
2201 accggatacc tgtccgcctt tctcccttcg ggaagcgtgg cgctttctca atgctcagc tgtaggtatc tcagttcggg gtaggtcggt cgctccaagc
2301 tgggctgtgt gcacgaaccc ccggttcagc ccgacccgtg ggttaactatc ggttaactatc gctctgagtc caaccggta agacacgact tatcgccact
2401 ggcagcagcc actggttaaca ggaatagcag agcgaggtat gtaggcggtg ctacagagtt cttgaaagtg tggcctaact acggctacac tagaaggaca
2501 gtatttggtg tctgcgctct gctgaagcca gttaccttcg gaaaagagtg tggtagctct tgatccggca aacaaaccac cgctggtagc ggtggttttt
2601 ttgtttgcaa gcagcagatt acgcgcagaa aaaaaggatc tcaagaagat cctttgatct tttctacggg gtcctgacgt cagtggaaagc aaaactcacg
2701 ttaagggatt ttggtcatga gattatcaaa aaggatcttc acctagatcc ttttaaatga aaaaatgaag tttaaatcaa tctaaagtat atatgagtaa
2801 acttggtctg acagttacca atgcttaatc agtgaggcac ctatctcagc gatctgtcta tttcgttcac ccatagttgc ctgactcccc gtcgtgtaga
2901 taactacgat acgggagggc ttaccatctg gccccagtcg tgcaatgata ccgcgagacc cagctcacc ggctccagat ttatcagcaa taaaccagcc
3001 agccggaagg gccgagcgca gaagtgttcc tgcaacttta tccgcctcca tccagctcat taattgttgc cgggaagcta gagtaagtag ttcgccagtt
3101 aatagtttgc gcaacgttgt tgccattgct acaggcatcg ttggtgtcacg ctctgtctgt cctccgatcg ttgtcagaag taagtggcc gcagtgttat cactcatggt
3201 gagttacatg atccccatg ttgtgcaaaa aagcggttag ctctctcggt cctccgatcg ttgtcagaag taagtggcc gcagtgttat cactcatggt
3301 tatggcagca ctgcataatt ctcttactgt catgccatcc gtaagatgct tttctgtgac ttgtgagtag tcaaccaagt cattotgaga atagtgtatg
3401 cggcgaccga gttgctcttg ccggcgctca atacgggata ataccgcgcc acatagcaga actttaaaag tgctcatcat tggaaaacgt tcttcggggc
3501 gaaaactctc aaggatctta ccgctgttga gatccagttc gatgtaaccc actcgtgcac ccaactgato ttcagcatct tttactttca ccagcgtttc
3601 tgggtgagca aaaacaggaa ggcataatgc cgcaaaaaag ggaataaggc cgacacggaa atgttgtaata ctcatactct tcttttttca atattattga
3701 agcattttac agggttattg tctcatgagc ggatacatat ttgaatgtat ttgaaaaaat aaacaaatag ggggttccgg cacatttccc cgaaaaagtc
3801 cacctgacgt ctaagaaacc attattatca tgacattaac ctataaaaaat aggcggtatca cgaggccctt tcgtg
```

> RDC0390 Translated Insert Sequence

```
1   mdattpaqtv gveiyilgpvw papsnstpla lnlsalred apgnltgdls ehqqyviaf lsclytiflf pigfvgnili lvvnisfrek mtipdlyfin
101  laaadlilva dslievfnld eqyydiavlc tfmslflqin myssvffltw msfdrylala kamrcglfrt khharlscgl iwmasvsatl vpftavhlrh
201  teeacfcfad vrevqlevt lgfimpfaii glcyslivra lirahrhrgl rprrrkalrm ifavvlvffi cwlpenvfis vhllqwtqpg dtpckqsfrrh
301  ayppltghivn laafsnscln pliysflget frdkrlryve qktslpalnr fchatlkavi pdsteqsevr fssav
```