

### Specifications:

|                |                  |
|----------------|------------------|
| Gene:          | mRXFP1           |
| Accession:     | NP_997617        |
| Insert size:   | 2289bp           |
| 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. |

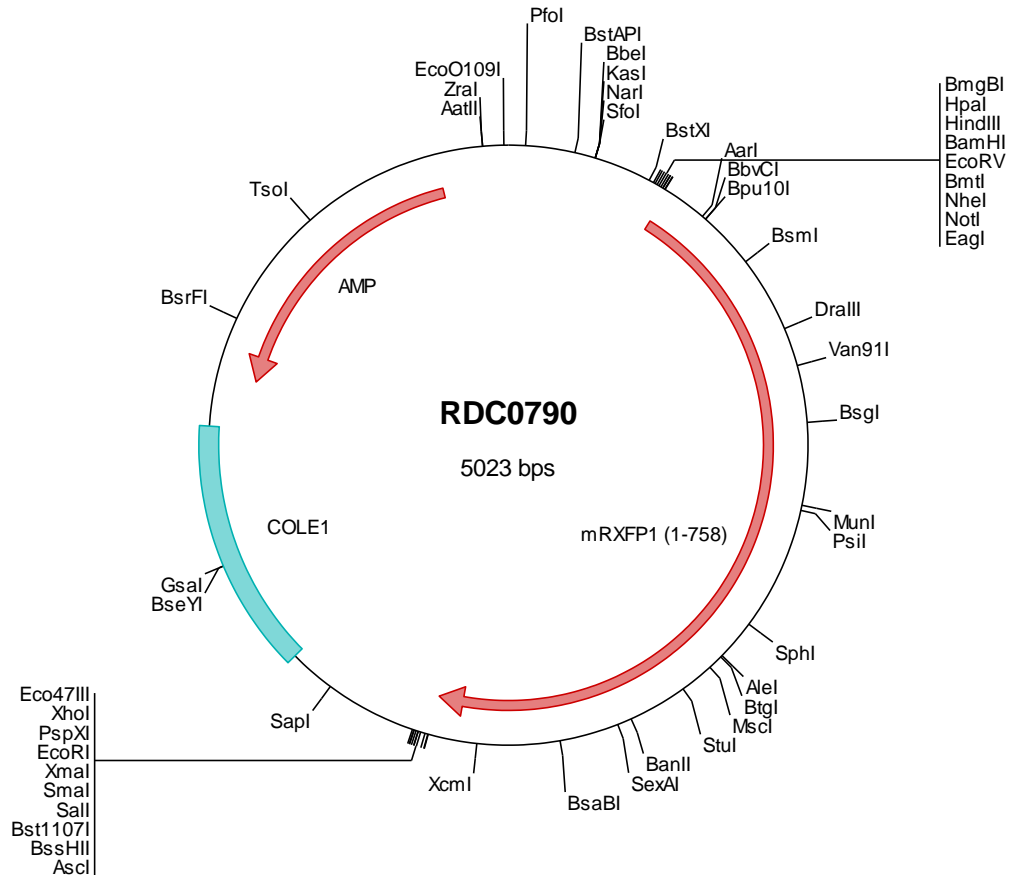
## mRXFP1/LGR7 cDNA Plasmid

Rxfp1 relaxin/insulin-like family peptide receptor 1 [ *Mus musculus* (house mouse) ]

Also known as: Lgr7;  
Gm1018

### Summary:

RXFP1 is a receptor for Relaxin (RLN). It is expressed in both androgen receptor (AR)-positive and -negative prostate cancers as well as in prostate cancer cell lines. RLN behaves as a cell growth factor and increases invasiveness and proliferation of cancer cells in vitro and in vivo. Thus, the suppression of RLN/RXFP1 may have potential therapeutic benefits in prostate cancer.





> RDC0790 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtea cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcagggcgcg tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtgcc accatattgcg gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcggggcc tcttcgctat
301 taagccagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgccagggt ttcccgatc acgacgttgt aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgcacc atgacatctg gtccattctt cttctgcatc ttcattattg gaaaatattt
501 cactctcggga agtgcaagg atgtcagttg tcccctcggc tccctcccct gtgggaacat gagcaggtgc ctgcctcago tgcctcaactg caatgggtgtg
601 gacgactcgc ggaaccgagc tgatgaggac cactcgggag acaacaatgg gtggtctctg caactggaca aatattttgc taattactat aaactggctt
701 ccaactaacct ctttgaggca gaaacttccg aatgcttggg ttgctctggt ccatatgcat gttttgctgc agatctagaa cttgactgtg atgaaagcaa
801 tttacgagct gtcccatcag ttttttccaa tgtgactgta atgtccctgc agaggaactt cataagaaca ccccctccca acggttccag gaagtaccat
901 gagctgcaga agctgtgcoct gcaaaaacaat aggatcact cctgtagcgt ctctgctctc agaggactgc gcagcctcac taaactgtac ctcaagtata
1001 acagaataac cttctcaaa gccaggagtt ttgaagatct ccaacagact gaaatggctg taattgaaga caatcacctc agtcaattt ccccactcac
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1301 attacttaaa tgaacatgca tttacacacc tccagaaact agatgaattg gatttaggaa gtaataagat tgaaaatctt ccaccgaaca tatttaagga
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3001 ggccgtttgc gtatgtggcg ctcttccgct tctctgctca ctgactcgt gcctcgggtc gttccgctgc ggcgagcgtt atcagctcac tcaaaaggcg
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3901 ttaaattaaa aatgaagttt taaatcaat taaagtatat atgagtaaac ttggtctgac agttaccaat gcttaatcag ttaggcacct atctcagca
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4201 cagctctatta attgttccg ggaagctaga gtaagtatt gcgcagtaa tagtttgcgc aacgttgtg ccattgtctac aggcactgt gtgtcacgct
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4601 atagcagaac tttaaaagtc ctcatcattg gaaaacgttc ttccggggcga aactctcaa ggaacttacc gctgttgaga tccagttcga tgtaaccac
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4801 acacggaaat gtgaatact catactctt ctttttcaat attattgaag catttaccag ggtattgtc tcatgagcgg atacatattt gaatgtatt
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5001 gcgatatcag aggcctttc gtc

> RDC0790 Translated Insert Sequence

1 mtsgpfffc iifiikyftlg saqdvscplg sfpngmsrc lpgllhcnvg ddcgnraded hcgdnnwsl qldkyfanyy klastnsfea etseclvgsv
101 pmhclerdle ldcdeanlra vpsvssnvvt mslqrnfirt lppngfrkyh elqklclqnn rihsvsvsaf rglrsltkly lshnritflk pgvfedlhlrl
201 ewliiednhl srispltfyg lnsllllvml nmaltrlpdk ploqhmprlh wldfegnrih nlrnltfisc nntvlvmrk nkinylncha fthlqklldel
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601 smfysvhqss vtvtieiqqv kkevvlakrf ffiivfdalc wipifilklf sllgveipds itswvivil pinsalnp ii yltttrpfke mihqlwhnyr
701 qrrsvdrket qkayapsfiw vemwplqems sgfmkpgaft dpcdlslvsq ssrlnsys