

Product datasheet for **MR223089**

Rxfp1 (NM_212452) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rxfp1 (NM_212452) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rxfp1
Synonyms:	Gm1018; Lgr7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR223089 representing NM_212452
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACATCTGGTCCATTCTTCTTCTGCATCTTCATTATTGGAAAAATTTCACTCTCGGAAGTGCACAGG
 ATGTCAGTTGTCCCTCGGCTCCTTCCCTGTGGGAACATGAGCAGGTGCCTGCCTCAGCTGCTTCACTG
 CAATGGTGTGGACGACTGCGGGAACCGAGCTGATGAGGACCCTGCGGAGACAACAATGGGTGGTCTCTG
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 AATGCTTGGTGGCTCTGTGCCATGCATTGTTTGTGCCGAGATCTAGAACTTGACTGTGATGAAGCCAA
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 AGTTTCTCAGTCATCTAGACTCAATTCTTATTCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223089 representing NM_212452
 Red=Cloning site Green=Tags(s)

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MTSGPFFFCIFIIGKYFTLGSAQDVSCPLGSFPCGNMSRCLPQLLHCNGVDDCGNRADEHDCGDNNGWSL
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LPPNGFRKYHELQKLCLOQNNRIHSVSVSAFRGLRSLTKLYLSHNRITFLKPGVFEDLHRLEWLIIEDNHL
SRI SPLTFYGLNSLILLVLMNNALTRL PDKPLCQHMPRLHWLDFEGNRIHNLRNLTFFISCNLTVLVMRK
NKINYLNEHAFTHLQKLDLDELGSKNIENLPPNIFKDLKELSQLNISYNPIQKIEVNQFDCLAKLSL
EGIEISNIQQRMRPLINLSHIYFKKFQYCYAPHVRSCKPNTDGISSLENLLASIIQRVFWVVSAITC
FGNIFVICMRPYIRSENKLHMSIISLCCADCLMGVYLFVIGAFDLKFRGEYNKHAQPWMSVHCQFMGS
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GVCPLHSEDGTGTAQIYSVVIFLGINLVAFIIIVFSYSGSMFYSHQSSVTVTEIQKQVKKEVLAKRFR
FFIVFTDALCWIPILKFLSLLQVEIPDSITSWVVIFILPINSALNPIIYTLTRPFKEMIHQLWHNYR
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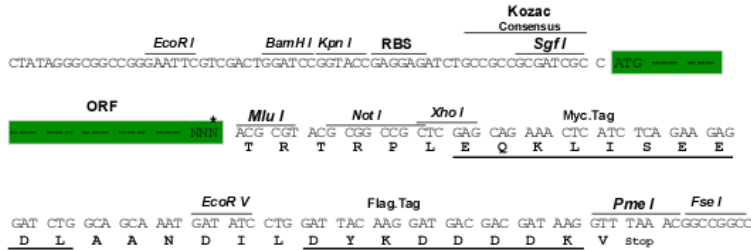
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1875_f08.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_212452

ORF Size: 2274 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_212452.2](#)

RefSeq Size: 2277 bp

RefSeq ORF: 2277 bp

Locus ID: 381489

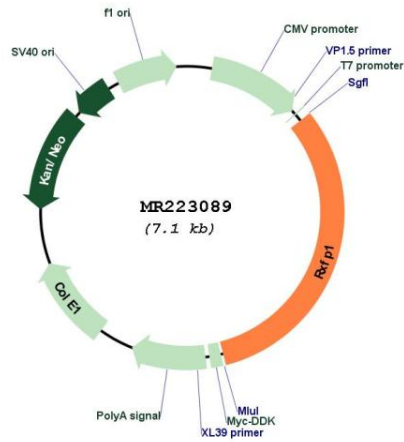
UniProt ID: [Q6R6I7](#)

Cytogenetics: 3 E3

MW: 87.4 kDa

Gene Summary: Receptor for relaxins. The activity of this receptor is mediated by G proteins leading to stimulation of adenylate cyclase and an increase of cAMP. Binding of the ligand may also activate a tyrosine kinase pathway that inhibits the activity of a phosphodiesterase that degrades cAMP.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223089