

## Product datasheet for **RG219729**

### FSH Receptor (FSHR) (NM\_181446) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FSH Receptor (FSHR) (NM_181446) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FSH Receptor
Synonyms:	FSHR1; FSHRO; LGR1; ODG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG219729 representing NM\_181446  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCCTGCTCCTGGTCTCTTTGCTGGCATTCTGAGCTTGGGCTCAGGATGTATCATCGGATCTGTC  
 ACTGCTCTAACAGGGTTTTCTCTGCCAAGAGAGCAAGGTGACAGAGATTCTTCTGACCTCCCGAGGAA  
 TGCCATTGAAGTGGTTTGTCTCACCAGCTTCGAGTCATCCAAAAAGGTGCATTTTCAGGATTTGGG  
 GACCTGGAGAAAAAGAGATCTCTCAGAATGATGTCTTGGAGGTGATAGAGGCAGATGTGTTCTCCAACC  
 TTCCCAAATTACATGAAATTAGAATTGAAAAGGCCAACCACTGCTCTACATCAACCCTGAGGCCTTCCA  
 GAACCTTCCCAACCTTCAATATCTGTTAATATCCAACACAGGTATTAAGCACCTTCCAGATGTTCAACA  
 ATTCATTCTCTCCAAAAAGTTTTACTTGACATTCAAGATAACATAAACATCCACACAATTGAAAGAAAT  
 CTTTCGTGGGGCTGAGCTTTGAAAGTGATTCTATGGCTGAATAAGAATGGGATTCAAGAAATACACAA  
 CTGTGCATTCAATGGAACCAACTAGATGAGCTGAATCTAAGCGATAATAATAATTTAGAAGAATTGCCT  
 AATGATGTTTTCCACGGAGCCTCTGGACCAGTCATTCTCTCTGAGCTTCAATCAATTTGCAACAAATCTA  
 TTTAAGGCAAGAAGTTGATTATGACTCAGGCTAGGGGTGAGAGATCCTCTCTGGCAGAGACAAATGA  
 GTCCAGCTACAGCAGAGGATTTGACATGACGTACACTGAGTTTACTATGACTTATGCAATGAAGTGGTT  
 GACGTGACCTGCTCCCTAAGCCAGATGCATTAACCCATGTGAAGATATCATGGGGTACAACATCCTCA  
 GAGTCTGATATGGTTTATCAGCATCCTGGCCATCACTGGGAACATCATAGTGCTAGTGATCCTAACTAC  
 CAGCCAATATAAACTCACAGTCCCAGGTTCTTATGTGCAACCTGGCCTTTGCTGATCTCTGCATTGGA  
 ATCTACCTGCTGCTCATTGCATCAGTTGATATCCATACCAAGAGCCAATATCACAACTATGCCATTGACT  
 GGCAAACTGGGGCAGGCTGTGATGCTGGCTTTTCTACTGTCTTTGCCAGTGAGCTGCAGTGTACAC  
 TCTGACAGCTATCACCTTGGAAAGATGGCATAACCATCACGCATGCCATGCAGCTGGACTGCAAGGTGCAG  
 CTCCGCCATGCTGCCAGTGCATGGTGTGGGCTGGATTTTGTCTTTGAGCTGCCCTCTTCCCATCT  
 TTGGCATCAGCAGCTACATGAAGGTGAGCATCTGCCTGCCATGGATATTGACAGCCCTTTGTCACAGCT  
 GTATGTATGTCCTCCTTGTGCTCAATGTCTGGCCTTTGTGGTCTGTGGCTGCTATATCCACATC  
 TACCTCACAGTGCAGAACCCCAACATCGTGTCTCTCTAGTGACACCAGGATCGCCAAGCGCATGGCCA  
 TGCTCATCTTCACTGACTTCTCTGCATGGCACCATTCTTTCTTTGCCATTTGCTCCCTCAAGGT  
 GCCCTCATCACTGTGTCAAAGCAAAGATTCTGCTGGTCTGTTCACCCCATCAACTCTGTGCCAAC  
 CCCTTCTCTATGCCATTTTACCAAAAACCTTTCGAGAGATTTCTTCTCTGCTGAGCAAGTGTGGCT  
 GCTATGAAATGCAAGCCCAAATTTATAGGACAGAACTTCATCCACTGTCCACAACCCATCCAAGGAA  
 TGCCACTGCTCTCAGCTCCAGAGTACCAGTGGTTCCACTTACATAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG219729 representing NM\_181446  
 Red=Cloning site Green=Tags(s)

MALLLVSLAFLSLGSGCHHRICHCSNRVFLCQESKVTEIPSDLPRNAIELRFVLTCLRVIQKGFSGFG  
 DLEKIEISQNDVLEIEADVFSNLPLHEIRIEKANLLYINPEAFQNLPLQYLLISNTGIKHLDPVHK  
 IHSLQVLLDIQDNINIHTIERNFSVGLSFEVILWLNKNGIQEIHNCANFTQLDELNLSDNNLEELP  
 NDVFGHAGSPVILSELHPICNKSILRQEVDMYMQARGQRSSLAEDNESSYRGMFTYTEFDYDLNEVV  
 DVTCSPKPDAFNPCEDIMGYNILRVLIWFIWISILAITGNIIVLVILTTTQYKLTVPFRFLMCLAFADLCIG  
 IYLLLIASVDIHTKSQYHNYAIDWQTGAGCDAAGFFTVFASELSVYTLTITLERWHTITHAMQLDCKVQ  
 LRHAASVMVMGWIFAFAAALFPIFGISSYMKVSIPLPMDIDSPLSQLYVMSLLVLNVLAFVVICGCYIHI  
 YLTVRNPNIWSSSDTRIAKRMAMLIPTDFLCMAPIFFAISASLVPLITVSKAKILLVLFHPINSCAN  
 PFLYAIPTKNFRDFILLSKGCYEMQAQIYRTETSSTVHNTHPRNGHCSSAPRVTSYSTYI

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_181446

**ORF Size:** 1870 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](mailto: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.

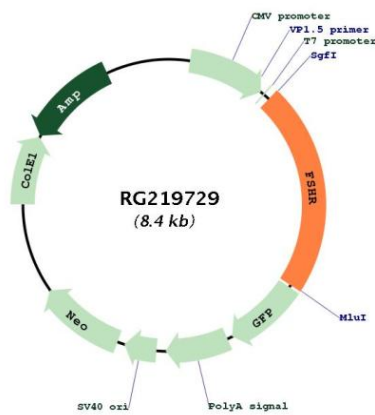
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_181446.1](#), [NP\\_852111.1](#)

RefSeq Size:	2196 bp
RefSeq ORF:	2010 bp
Locus ID:	2492
UniProt ID:	<a href="#">P23945</a>
Cytogenetics:	2p16.3
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	The protein encoded by this gene belongs to family 1 of G-protein coupled receptors. It is the receptor for follicle stimulating hormone and functions in gonad development. Mutations in this gene cause ovarian dysgenesis type 1, and also ovarian hyperstimulation syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2010]

### Product images:



Circular map for RG219729