

Product datasheet for **RG217736**

FSH Receptor (FSHR) (NM_000145) Human Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | FSH Receptor (FSHR) (NM_000145) 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) |



[View online »](#)

ORF Nucleotide Sequence:

>RG217736 representing NM_000145
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCTGCTCCTGGTCTCTTTGCTGGCATTCTGAGCTTGGGCTCAGGATGTCATCATCGGATCTGTC
 ACTGCTCTAACAGGGTTTTCTCTGCCAAGAGAGCAAGGTGACAGAGATTCTTCTGACCTCCCGAGGAA
 TGCCATTGAAGTGGTTTGTCTCACCAAGCTTCGAGTCATCCAAAAAGGTGCATTTTCAGGATTTGGG
 GACCTGGAGAAAAAGAGATCTCTCAGAATGATGTCTTGGAGGTGATAGAGGCAGATGTGTTCTCCAACC
 TTCCCAAATTACATGAAATTAGAATTGAAAAGGCCAACAACTGCTCTACATCAACCCTGAGGCCTTCCA
 GAACCTTCCAACCTTCAATATCTGTTAATATCCAACACAGGTATTAAGCACCTTCCAGATGTTCAACA
 ATTCATTTCTCCAAAAAGTTTTACTTGACATTCAAGATAACATAAACATCCACACAATTGAAAGAAATT
 CTTTCGTGGGGCTGAGCTTTGAAAGTGATTCTATGGCTGAATAAGAATGGGATTCAAGAAATACACAA
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 AATGATGTTTTCCACGGAGCCTCTGGACCAGTCATTCTAGATATTTCAAGAACAAAGGATCCATTCCTGC
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 TCTGGAAAAGCTTGTGCGCCCTCATGGAAGCCAGCCTCACCTATCCAGCCATTGCTGTGCCTTTGAAAAC
 TGGAGACGGCAAACTCTCTGAGCTTCATCCAATTTGCAACAAATCTATTTTAAGGCAAGAAGTTGATTATA
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 CATGACGTACACTGAGTTTGACTATGACTTATGCAATGAAGTGGTTGACGTGACCTGCTCCCCTAAGCCA
 GATGCATTCAACCATGTGAAGATATCATGGGGTACAACATCCTCAGAGTCTGATATGGTTTATCAGCA
 TCCTGGCCATCACTGGGAACATCATAGTGCTAGTGATCCTAACTACCAGCCAATATAAACTCACAGTCCC
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 GTTGATATCCATACCAAGAGCCAATATCACAACATGCCATTGACTGGCAAACCTGGGGCAGGCTGTGATG
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 CAATGTCTGCTTGTGGTCTCTGTGGCTGCTATATCCACATCTACCTCACAGTGGGAACCCCAAC
 ATCGTGTCTCCTCTAGTGACACCAGGATCGCCAAGCGCATGGCCATGCTCATCTTCACTGACTTCTCT
 GCATGGCACCCATTTCTTTCTTTGCCATTTCTGCCTCCCTCAAGGTGCCCTCATCACTGTGTCCAAGC
 AAAGATTTCTGCTGTTCTGTTTCACCCCATCAACTCCTGTGCCAACCCCTTCTCTATGCCATCTTTACC
 AAAAATTTGCGCAGAGATTTCTTATTCTGCTGAGCAAGTGTGGCTGCTATGAAATGCAAGCCAAATTT
 ATAGGACAGAAATTCATCCACTGTCCACAACCCCATCCAAGGAATGGCCACTGCTCTTTCAGCTCCCAG
 AGTCACCAGTGGTTCCACTTACATACTTGTCCCTTAAGTCATTTAGCCAAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG217736 representing NM_000145
Red=Cloning site Green=Tags(s)

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MALLLVSLAFLSLGSGCHHRICHCSNRVFLCQESKVTEIPSDLPRNAIELRFVLTCLRVIQKGFSGFG
DLEKIEISQNDVLEIEADVFSNLPKLHEIRIEKANLLYINPEAFQNLPNLYLLISNTGIKHLPDVHK
IHSLQKVLDDIQDNINIHTIERNFSVGLSFESVILWLNKNGIQEIHNCANFGTQLDELNLSNNNLEELP
NDVFHAGSGPVILDISRTRIHSLPSYGLLENLKKLRARSTYNLKKLPTLEKLVALMEASLTYPHCCAFAN
WRRQISELHPICNKSILRQEVDMYMQARGQRSSLAEDNESSYSRGFDMTYTEFDYDLCNEVVDVTCSPKP
DAFNPCEDIMGYNLRVLIWFISILAITGNIIVLVILTTSQYKLVPRFLMCNLAFADLCIGIYLLLIAS
VDIHTKSQYHNYAIDWQTGAGCDAAGFFTVFASELVSYTLTAITLERWHTITHAMQLDCKVQLRHAASVM
VMGWIFAAALFPIFGISSYMKVSIICLPMDIDSPLSQLYVMSLLVNLVAFVVICGCYIHIYLTVRNPN
IVSSSSDTRIAKRMAMLIPTDFLCMAPISSFFAISASLKVPLITVSKAKILLVLFHPINSCANPFLYAIPT
KNFRDRDFILLKCGCYEMQAQIYRTETSSVHNTHPRNGHCSSAPRVTSGSTYILVPLSHLAQN
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000145

ORF Size: 2085 bp

OTI Disclaimer: 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_000145.4](#)

RefSeq Size: 2382 bp

RefSeq ORF: 2088 bp

Locus ID: 2492

UniProt ID: [P23945](#)

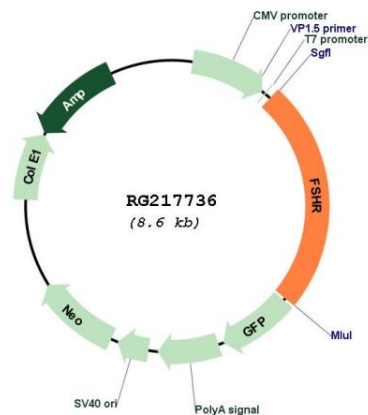
Cytogenetics: 2p16.3

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 RG217736