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Product datasheet for SC119211

G protein coupled receptor 30 (GPER1) (NM_001505) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G protein coupled receptor 30 (GPER1) (NM_001505) Human Untagged Clone
Tag:	Tag Free
Symbol:	G protein coupled receptor 30
Synonyms:	CEPR; CMKRL2; DRY12; FEG-1; GPCR-Br; GPER; GPR30; LERGU; LERGU2; LyGPR; mER
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC119211 sequence for NM_001505 edited (data generated by NextGen Sequencing)

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ATGGATGTGACTTCCCAAGCCCGGGGCGTGGGCCTGGAGATGTACCCAGGCACCGCGCAG
CCTGCGGCCCCCAACACCACCTCCCCCGAGCTCAACCTGTCCCACCCGCTCCTGGGCACC
GCCCTGGCCAATGGGACAGGTGAGCTCTCGGAGCACCAGCAGTACGTGATCGGCCTGTTC
CTCTCGTGCCTCTACACCATCTTCCTCTTCCCCATCGGCTTTGTGGGCAACATCCTGATC
CTGGTGGTGAACATCAGCTTCCGCGAGAAGATGACCATCCCCGACCTGTACTTCATCAAC
CTGGCGGTGGCGGACCTCATCCTGGTGGCCGACTCCCTCATTGAGGTGTTCAACCTGCAC
GAGCGGTACTACGACATCGCCGTCCTGTGCACCTTCATGTCGCTCTTCCTGCAGGTCAAC
ATGTACAGCAGCGTCTTCTTCCTCACCTGGATGAGCTTCGACCGCTACATCGCCCTGGCC
AGGGCCATGCGCTGCAGCCTGTTCCGCACCAAGCACCACGCCCGGCTGAGCTGTGGCCTC
ATCTGGATGGCATCCGTGTCAGCCACGCTGGTGCCCTTCACCGCCGTGCACCTGCAGCAC
ACCGACGAGGCCTGCTTCTGTTTCGCGGATGTCCGGGAGGTGCAGTGGCTCGAGGTCACG
CTGGGCTTCATCGTGCCCTTCGCCATCATCGGCCTGTGCTACTCCCTCATTGTCCGGGTG
CTGGTCAGGGCGCACCGGCACCGTGGGCTGCGGCCCCGGCGGCAGAAGGCGCTCCGCATG
ATCCTCGCGGTGGTGCTGGTCTTCTTCGTCTGCTGGCTGCCGGAGAACGTCTTCATCAGC
GTGCACCTCCTGCAGCGGACGCAGCCTGGGGCCGCTCCCTGCAAGCAGTCTTTCCGCCAT
GCCCACCCCCTCACGGGCCACATTGTCAACCTCGCCGCCTTCTCCAACAGCTGCCTAAAC
CCCCTCATCTACAGCTTTCTCGGGGAGACCTTCAGGGACAAGCTGAGGCTGTACATTGAG
CAGAAAACAAATTTGCCGGCCCTGAACCGCTTCTGTCACGCTGCCCTGAAGGCCGTCATT
CCAGACAGCACCGAGCAGTCGGATGTGAGGTTCAGCAGTGCCGTGTAG
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Clone variation with respect to NM_001505.2

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001505 unedited
CGTTAGAATTGTATACGACTCATATAGGCGGCCTGCGAATCGGCACCAGNAGGCTTCCAG
AGCCAGAAGGGCTGCAACCCAGGTACCCAGAGAGTGAGCAGCTCCACGCGGGACTGTGCA
CGGTGGCCGACACCCGCAGGGACGCCCGCCGGACGAGCACGCGGAGGGCCCTCGCCTCCA
CGGATGCACCATGCCGGTGTGAGGAGCATCTGTTCTTCCCACTCTCTGCAGTTAACAAAC
CCAACCCAAACCACCACAGGTGCTCCTCCTGGGGAGTTTCCTGTCTGACAAATGCCAGGC
TCACTTCAAGGAGAATCACGCTTCTTTCTAAAGATGGATTCACCATTTAAAACAGAGCTC
TGGGAGCCTTTCGGCAAATCTTGAAAGCTGCACGGTGCAGAGACATGGATGTGACTTCCC
AAGCCCGGGGCGTGGGCCTGGAGATGTACCCAGGCACCGCGCAGCCTGCGGCCCCCAACA
CCACCTCCCCCGAGCTCAACCTGTCCCACCCGCTCCTGGGCACCGCCCTGGCCAATGGGA
CAGGTGAGCTCTCGGAGCACCAGCAGTACGTGATCGGCCTGTTCCTCTCGTGCCTCTACA
CCATCTTCCTCTTCCCCATCGGCTTTGTGGGCAACATCCTGATCCTGGTGGTGAACATCA
GCTTCCGCGAGAAGATGACCATCCCCGACCTGTACTTCATCAACCTGGCGGTGGCGGACC
TCATCCTGGTGGCCGACTCCCTCATTGAGGTGTTCAACCTGCACGAGCGGTACTACGACA
TCGCCGACCTGTGCACCTTCATGTCGCTCTTCCTGCAGGTCAACATGTACAGCAGCGTCT
TCTTCCTCACCTGGATGAGCTTCGACCGCTACATCGNCCTGGCCAGGGCCATGCGCTGCA
GNCTGATCCGCACCAAGCCCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001505 unedited
NNCCTACTCTGNNACCGCGGCCGCATNCTANNGATCGGTTTTTTTTTTTTTTTTTTTTTT
TCGCACATGACAGGTTTATTGACAAAGGCTGAACGTCACCAGCCTCATCAGCTTTTCTTA
CATTTTATGGGAAGGTTTTTACATCATCACCGCAGTTGTCCCCAGCTGTTATTTCTGTAA
AAACAAATTCGTCAGCCACAGGTGCTGGAGTATTTCATTGTCCTGGCACCCGACTAACCC
ACACGGCAGCTCGCACGGTCCCAGTCCACATGAGTGCAATTGCCATGTTGATGTCAACAA
GCAGTGACTGAACCACCCCGGAGCAAACGGCGGGCGCTCCACAGAGGGGCCTTCCTGCTG
CTCCGGGCCGAGCGCTGCTGCTCCTCGTGGGCCTGGTGAGGCCGCACAGCGCCATTGCTG
CCATCCTGGAAGATGGAGGACGCTCAGGCGTGCACCAAAGCAGCATGTTTTCCTTCTCCT
CTTTAACTCGGCGGTGCGCTAGCTAGCTCAGACCGTGGGCACAGAGGACACACCGCGACG
TCCAGCTCAGACCCACCAGCACCTTGCATCTCCAGCGTCAGTTCCCCCACGGTGGCAGAT
TTGCTTTAGGGTTCCTGTGTAACTGAGGCGCTTCACCCACAGTGGCCTCTCCGTGTGGCT
TTCCTGGTCGACGGTGTCAGAAATGTTTCCTGCAGCGGCAGGCAGGTGCANCGGCAGGCA
GGGTTGGCGGGGAGGAGCTGGGTGACAGGCTGGTCACCGCTGGCCTTTGGACCCTGCGGG
GCGAGCGCTTTNGGATTGTAGCATTNCTGTGTGAGGAGTGCAAGGTGACCAGTCGTGAGG
TTTCCTAAGCAGCCCCAGGGTGACCAGNNCAGCGTGACCCTCGCGAGGCCCCGAGGAGCC
AGAAGCCCATCTGACCGCAGTTTAAGAACTGACCTGGCCGTGCCTTGTGTCCCCC

Restriction Sites: NotI-NotI

ACCN: NM_001505

Insert Size: 1128 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001505.1, NP_001496.1
RefSeq Size:	2776 bp
RefSeq ORF:	1128 bp
Locus ID:	2852
UniProt ID:	Q99527
Cytogenetics:	7p22.3
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Gene Summary:	This gene encodes a multi-pass membrane protein that localizes to the endoplasmic reticulum and a member of the G-protein coupled receptor 1 family. This receptor binds estrogen and activates multiple downstream signaling pathways, leading to stimulation of adenylate cyclase and an increase in cyclic AMP levels, while also promoting intracellular calcium mobilization and synthesis of phosphatidylinositol 3,4,5-trisphosphate in the nucleus. This protein therefore plays a role in the rapid nongenomic signaling events widely observed following stimulation of cells and tissues with estrogen. This receptor has been shown to play a role in diverse biological processes, including bone and nervous system development, metabolism, cognition, male fertility and uterine function. [provided by RefSeq, Aug 2017] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 3. Variants 2, 3, and 4 encode the same protein.