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Product datasheet for RC212278

G protein coupled receptor 30 (GPER1) (NM_001098201) Human Tagged ORF Clone

Product data:

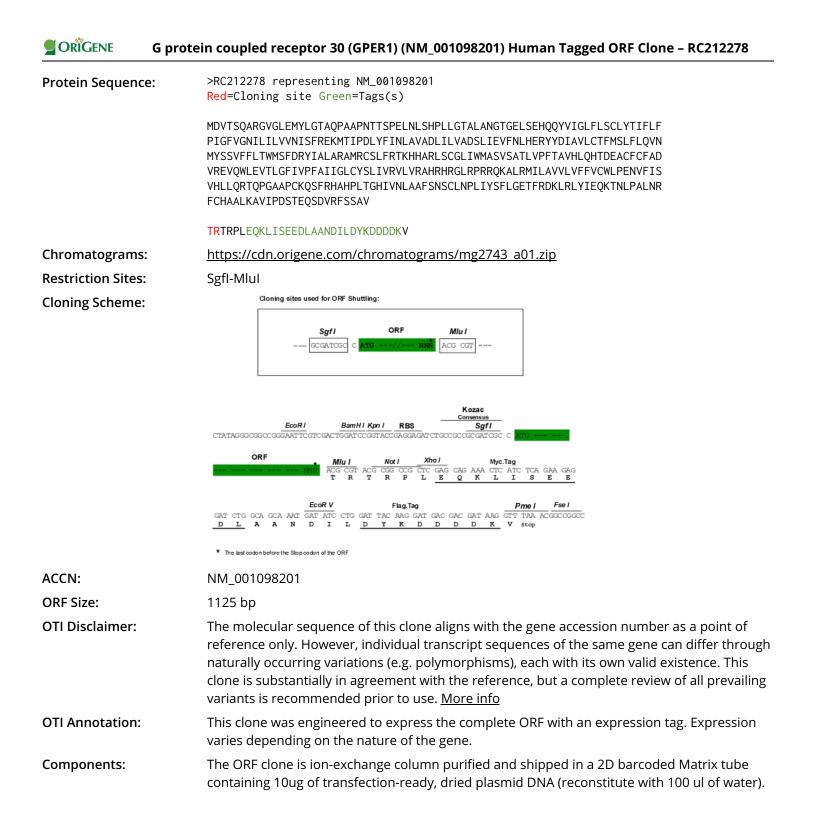
Product Type:	Expression Plasmids
Product Name:	G protein coupled receptor 30 (GPER1) (NM_001098201) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	G protein coupled receptor 30
Synonyms:	CEPR; CMKRL2; DRY12; FEG-1; GPCR-Br; GPER; GPR30; LERGU; LERGU2; LyGPR; mER
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC212278 representing NM_001098201 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGATGTGACTTCCCAAGCCCGGGGCGTGGGCCTGGAGATGTACCTAGGCACCGCGCAGCCTGCGGGCCC CCAACACCACCTCCCCCGAGCTCAACCTGTCCCACCCGCTCCTGGGCACCGCCCTGGCCAATGGGACAGG TGAGCTCTCGGAGCACCAGCAGTACGTGATCGGCGTGTTCCTCTCGTGGCCTCTACACCATCTTCCTCTTC CCCATCGGCTTTGTGGGCAACATCCTGATCCTGGTGGTGAACATCAGCTTCCGCGAGAAGATGACCATCC CCGACCTGTACTTCATCAACCTGGCGGTGGCGGACCTCATCCTGGTGGCCGACTCCCTCATTGAGGTGTT CAACCTGCACGAGCGGTACTACGACATCGCCGTCCTGTGCACCTTCATGTCGCCTCTTCCTGCAGGTCAAC ATGTACAGCAGCGGTCTTCCTCCTCGGATGAGCTTCGACCCTCATCGGCCAGGGCCATGC GCTGCAGCCTGTTCCGCACCAAGCACCACGCCCGGCTGAGCTGTGGCCTCATCTGGATGGCACCTCGTGTG GCTGCAGCCTGTTCCGCACCAAGCACCACGCCCGGCTGAGCTGTGGCCTCATCTGGATGGCATCCGTGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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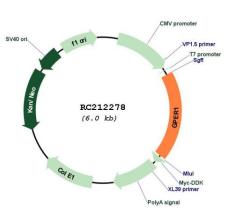
G ORIGENE G prote	ein coupled receptor 30 (GPER1) (NM_001098201) Human Tagged ORF Clone – RC212278
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 001098201.1, NP 001091671.1</u>
RefSeq Size:	2654 bp
RefSeq ORF:	1128 bp
Locus ID:	2852
UniProt ID:	<u>Q99527</u>
Cytogenetics:	7p22.3
Protein Families:	Druggable Genome, GPCR, Transmembrane
MW:	42.1 kDa
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.

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]

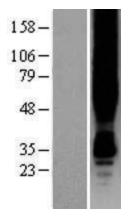
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Product images:



Circular map for RC212278



Western blot validation of overexpression lysate (Cat# [LY419894]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC216812] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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