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Product datasheet for RC203027

G protein coupled receptor 30 (GPER1) (NM_001039966) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G protein coupled receptor 30 (GPER1) (NM_001039966) 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:

>RC203027 representing NM_001039966
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATGTGACTTCCCAAGCCCGGGGCGTGGGCCTGGAGATGTACCTAGGCACCGCGCAGCCTGCGGCCC
CCAACACCACCTCCCCCGAGCTCAACCTGTCCCACCCGCTCCTGGGCACCGCCCTGGCCAATGGGACAGG
TGAGCTCTCGGAGCACCAGCAGTACGTGATCGGCCTGTTCCTCTCGTGCCTCTACACCATCTTCCTCTTC
CCCATCGGCTTTGTGGGCAACATCCTGATCCTGGTGGTGAACATCAGCTTCCGCGAGAAGATGACCATCC
CCGACCTGTACTTCATCAACCTGGCGGTGGCGGACCTCATCCTGGTGGCCGACTCCCTCATTGAGGTGTT
CAACCTGCACGAGCGGTACTACGACATCGCCGTCCTGTGCACCTTCATGTCGCTCTTCCTGCAGGTCAAC
ATGTACAGCAGCGTCTTCTTCCTCACCTGGATGAGCTTCGACCGCTACATCGCCCTGGCCAGGGCCATGC
GCTGCAGCCTGTTCCGCACCAAGCACCACGCCCGGCTGAGCTGTGGCCTCATCTGGATGGCATCCGTGTC
AGCCACGCTGGTGCCCTTCACCGCCGTGCACCTGCAGCACACCGACGAGGCCTGCTTCTGTTTCGCGGAT
GTCCGGGAGGTGCAGTGGCTCGAGGTCACGCTGGGCTTCATCGTGCCCTTCGCCATCATCGGCCTGTGCT
ACTCCCTCATTGTCCGGGTGCTGGTCAGGGCGCACCGGCACCGTGGGCTGCGGCCCCGGCGGCAGAAGGC
GCTCCGCATGATCCTCGCGGTGGTGCTGGTCTTCTTCGTCTGCTGGCTGCCGGAGAACGTCTTCATCAGC
GTGCACCTCCTGCAGCGGACGCAGCCTGGGGCCGCTCCCTGCAAGCAGTCTTTCCGCCATGCCCACCCCC
TCACGGGCCACATTGTCAACCTCGCCGCCTTCTCCAACAGCTGCCTAAACCCCCTCATCTACAGCTTTCT
CGGGGAGACCTTCAGGGACAAGCTGAGGCTGTACATTGAGCAGAAAACAAATTTGCCGGCCCTGAACCGC
TTCTGTCACGCTGCCCTGAAGGCCGTCATTCCAGACAGCACTGAGCAGTCGGATGTGAGGTTCAGCAGTG
CCGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC203027 representing NM_001039966
Red=Cloning site Green=Tags(s)

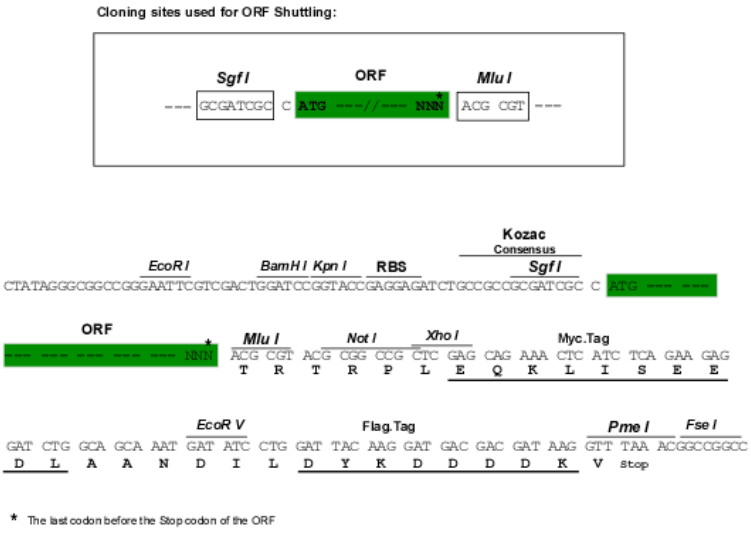
MDVTSQARGVGLEMYLGTAQPAAPNTTSPELNLSHPLLGTALANGTGELSEHQQYVIGLFLSCLYTIFLF
PIGFVGNILILVVNISFREKMTIPDLYFINLAVADLILVADSLIEVFNLHERYYDIAVLCTFMSLFLQVN
MYSSVFFLTWMSFDRYIALARAMRCSLFRTKHHARLSCGLIWMASVSATLVPFTAVHLQHTDEACFCFAD
VREVQWLEVTLGFIVPFAIIGLCYSLIVRVLVRAHRHRGLRPRRQKALRMILAVVLVFFVCWLPENVFIS
VHLLQRTQPGAAPCKQSFRHAHPLTGHIVNLAAFSNSCLNPLIYSFLGETFRDKLRLYIEQKTNLPALNR
FCHAALKAVIPDSTEQSDVRFSSAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2743_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001039966

ORF Size: 1125 bp

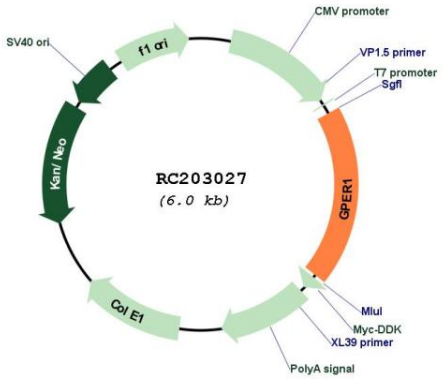
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

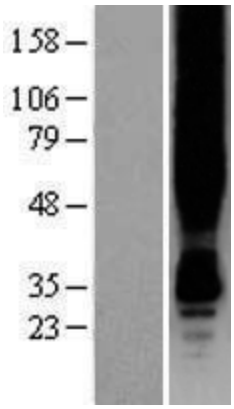
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001039966.1, NP_001035055.1
RefSeq Size:	2981 bp
RefSeq ORF:	1128 bp
Locus ID:	2852
UniProt ID:	Q99527
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. 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]

Product images:



Circular map for RC203027



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