

Product datasheet for **RC215844**

OGFR (NM_007346) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OGFR (NM_007346) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OGFR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC215844 ORF sequence, **codon optimized**.
 Due to the complexity of NM_007346, the ORF clone is codon optimized for mammalian Expression.
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATGATCCCAGCTGCGACTCCACTTGGGAAGAGGATGAGGAGGACGCAGAGGATGCAGAAGATGAGG
 ATTGTGAAGACGGAGAGGCCGCGCCAGGGACGCCGCGGGTACGAGGATGAGGAGTCCGAGGA
 ACCGAGAGCAGCAAGACCATCTAGCTTTCAATCCCGAATGACCGGAAGTAGAACTGGCGGGCGACAAGA
 GACATGTGTAGATACCGGCATACTACCCTGATTTGGTGGAAAGAGACTGCAATGGGACACACCTAATC
 TCAGCTTTTATAGGAACGAAATTCGCTTTCTGCCTAATGGGTGCTTTATCGAAGATATACTCCAAAACCTG
 GACCGACAACCTACGACCTGCTCGAAGATAACCCTCTTATATCCAGTGGCTGTTCCCGCTTAGGGAACCC
 GGCGTGAATTGGCATGCCAAACCTCTGACCCTGCGCGAGGTGGAAGTCTTTAAAAGTTACAGGAGATCC
 AGGAGAGACTCGTTAGAGCCTATGAGCTTATGCTCGGATTTATGGGATTAGGCTGGAGGATCGCGGTAC
 CGGCACTGTGGACGCGCCAGAACTATCAGAAGCGGTTTCAAAACCTGAACTGGAGAAGCCACAACAAT
 CTCGCGATCACTCGGATCCTCAAGAGCCTGGGCGAACTCGGCCTCGAACACTTTTCAGGCTCCGTTGGTTC
 GCTTCTTCTCGAGGAACTCTCGTGCGCAGAGAACTGCCCGAGTTCGGCAGTCCGCACTGGATTACTT
 CATGTTCCGAGTGGCTGCAGACACCAGAGGAGACAACCTGGTACACTTTGCTGGGAACATTTTCAGACCC
 AGGTGTAATTTGTATGGGGCCACAGGATAAACTGCGACGGTTTAAACCATCAAGTCTGCCTCACCCAC
 TGGAGGGGAGCAGAAAGGTAGAAGAAGAGGGATCACCTGGAGATCCTGACCACGAAGCATCTACCCAAGG
 AAGGACCTGCGGACCTGAACACAGCAAAGGAGGAGGAGGCGAGGTCGACGAAGGTCCTCAGCCTCGTCCGTG
 GAGCCACAGGATGCAGGACCATTGGAGAGGAGCCAGGAGACGAGGCCGAGGTCACGGCAGGACCCGGC
 CCGAACCTCTGTACCTAAGGAATCTAAAAACGGAACTTGAGCTCTCCAGGAGAGAGCAGCCCCCAC
 AGAGCCAGGACCACAGAGCGCTCCGAAGTGGAGAAGATTGCATTGAACCTGGAGGGCTGCGCACTGAGC
 CAAGGTTCAATTGCGGACCGGTACGCAGGAAGTCGGAGGCCAGGACCTGGAGAAGCAGTGCAGCCATGTC
 GGCAGCCTCTTGGCGCCAGGGTAGCCGATAAAGGTGAGAAAGAGACGCAAGGTGGACGAAGGTGCCGGGA
 TTCAGCTGCTGTGGCTTACAGGAGCGCCAGACACTTGCCTGGCCGGTTACCTGCGCCGTGAGGACAC
 CCAAAGGCTGGCCATAGTGAGAAATGGAGTGGAGGAAGACACCGAGGGGAGAACTGGGCCAAAGGAAGGGA
 CCCCTGGGAGTCTAGTGAGACTCCCGGGCCAAGCCCTGCTGGACCGGCAGGCGATGAGCCCGCGGAATC
 ACCATCCGAGACACCAGGCCACGGCCCGCTGGACCAGCGGGCGACGAACCGGCCGAAAGTCTTTCAGAA
 ACACCTGGACCAAGACCGGCCCGCCCGCTGGAGACGAGCCAGCCGAGAGCCCTTTCAGAGACACCCGGCC
 CTTCCCCCGCAGGACCCACTAGAGACGAGCCGGCAGAGTCTCCAGCGAAACACCCGGCCCCCGCCCTGC
 TGGCCCCGCTGGGATGAGCCAGCAGAGAGCCGAGTGAACACCCGGTCCGAGGCCCGCCGGCCAGCG
 GGTGATGAACCAGCCGAAAGCCCTCTGAAACTCCCGTCTAGCCCCGCTGGACCTACCAGGGACGAGC
 CAGCCAAGGCCGAGAAGCTGCTGAACTGCAAGACGCCGAAGTAGAGTCTAGTGCGAAGAGCGGGAAACC
 C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence: >RC215844 representing NM_007346
Red=Cloning site Green=Tags(s)

MDDPDCDSTWEEDEEDAEDAEDDCEDGEAAGARDADAGDEDEESEEPRAARPSSFQSRMTGSRNWRATR
 DMCRYRHNYPDLVERDCNGDTPNLSFYRNEIRFLPNGCFIEDILQNWTDNYDLLEDNHSYIQWLFPLREP
 GVNWHAKPLTLREVEVFKSSQEIQERLVRAYELMLGFYGIREDRGTGTVGRAQNYQKRFQNLNWRSHNN
 LRITRILKSLGELGLEHFQAPLVRFFLEETLVRRELPGVRQSALDYFMFAVRCRHQRRQLVHFAWEHFRP
 RCKFVWGPQDKLRRFKPSSLPHLEGSRKVEEEGSPGDPDHEASTQGRTCGPEHSKGGGRVDEGPQPRSV
 EPQDAGPLERSQGDEAGGHGEDRPEPLSPKESKKRLEL SRREQPPTPEPGQSASEVEKIALNLEGCALS
 QGSLRTGTQEVGGQDPGEAVQPCRQPLGARVADKVRKRRKVDGAGDSAAVASGGAQTLALAGSPAPSGH
 PKAGHSENGVEEDTEGRTGPKETPGSPSETPGPSPAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSE
 TPGPRPAGPAGDEPAESPSETPGPSPAGPTRDEPAESPSETPGPRPAGPAGDEPAESPSETPGPRPAGPA
 GDEPAESPSETPGPSPAGPTRDEPAKAGEAAELQDAEVSSAKSGKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_007346

ORF Size: 2031 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_007346.2](#), [NM_007346.3](#), [NP_031372.2](#)

RefSeq Size: 2410 bp

RefSeq ORF: 2034 bp

Locus ID: 11054

UniProt ID: [Q9NZZ2](#)

Cytogenetics: 20q13.33

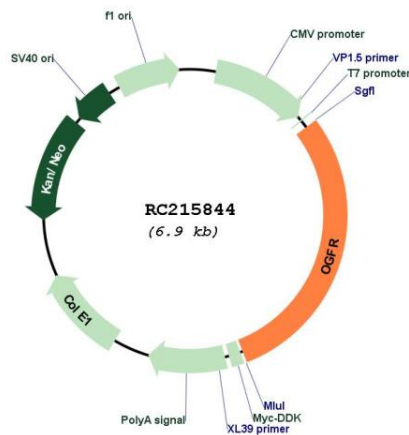
Domains: OGFr_N, OGFr_repeat

Protein Families: Druggable Genome

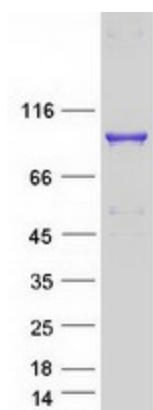
MW: 73.3 kDa

Gene Summary: The protein encoded by this gene is a receptor for opioid growth factor (OGF), also known as [Met(5)]-enkephalin. OGF is a negative regulator of cell proliferation and tissue organization in a variety of processes. The encoded unbound receptor for OGF has been localized to the outer nuclear envelope, where it binds OGF and is translocated into the nucleus. The coding sequence of this gene contains a polymorphic region of 60 nt tandem imperfect repeat units. Several transcripts containing between zero and eight repeat units have been reported. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC215844



Coomassie blue staining of purified OGFR protein (Cat# [TP315844]). The protein was produced from HEK293T cells transfected with OGFR cDNA clone (Cat# RC215844) using MegaTran 2.0 (Cat# [TT210002]).