

## Product datasheet for **SC115550**

### OGFR (NM\_007346) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OGFR (NM_007346) Human Untagged Clone
Tag:	Tag Free
Symbol:	OGFR
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >OriGene ORF within SC115550 sequence for NM\_007346 edited (data generated by NextGen Sequencing)

```

ATGGACGACCCCGACTGCGACTCCACCTGGGAGGAGGACGAGGAGGATGCGGAGGACGCG
GAGGACGAGGACTGCGAGGACGGCGAGGCCGCCGGCGGAGGACGCGGACGCAGGGGAC
GAGGACGAGGAGTCCGAGGAGCCCGGGCGGCGGCCAGCTCGTTCAGTCCAGAATG
ACAGGGTCCAGAACTGGCGAGCCACGAGGACATGTGTAGGTATCGGCACAATATCCG
GATCTGGTGGAAACGAGACTGCAATGGGGACACGCCAAACCTGAGTTTCTACAGAAATGAG
ATCCGCTTCTGCCCCAACGGCTGTTTCATTGAGGACATTCTTCAGAACTGGACGGACAAC
TATGACCTCCTTGAGGACAATCACTCCTACATCCAGTGGCTGTTTCTCTGCGAGAACCA
GGAGTGAAGTGGCATGCCAAGCCCTCACGCTCAGGGAGGTGAGGTGTTTAAAAGCTCC
CAGGAGATCCAGGAGCGGCTTGTCCGGGCTACGAGCTCATGCTGGGCTTCTACGGGATC
CGGCTGGAGGACCGAGGCACGGGACGGTGGGCCGAGCACAGAATAACGAGAAGCGCTTC
CAGAACCTGAAGTGGCGCAGCCACAACAACCTCCGCATCACACGCATCCTCAAGTCGCTG
GGTGAGCTGGGCTCGAGCACTCCAGGCGCCGCTGGTCCGCTTCTTCTGGAGGAGACG
CTGGTGGCGGGGAGCTGCCGGGGTGGCGCAGAGTGCCCTGGACTACTTCATGTTGCC
GTGCGCTGCCGACACCAGCGCCGAGCTGGTGCACCTTCGCTGGGAGCACTTCCGGCCC
CGCTGCAAGTTCGTCTGGGGGCCCAAGACAAGCTGCGGAGGTTCAAGCCAGCTCTCTG
CCCCATCCGCTCGAGGGCTCCAGGAAGTGGAGGAGGAAGGAAGCCCGGGGACCCGAC
CACGAGGCCAGCACCCAGGGTCCGACCTGTGGCCAGAGCATAGCAAGGTGGGGCAGG
GTGGACGAGGGGGCCAGCCACGGAGCGTGGAGCCCCAGGATGCGGGACCCCTGGAGAGG
AGCCAGGGGGATGAGGCAGGGGGCCACGGGGAAGATAGGCCGGAGCCCTTAAGCCCCAAA
GAGAGCAAGAAGGAAGCTGGAGCTGAGCCGGCGGAGCAGCCGCCACAGAGCCAGGC
CCTCAGAGTGCCCTCAGAGGTGGAGAAGATCGCTCTGAATTTGGAGGGGTGTGCCCTCAGC
CAGGGCAGCCTCAGGACGGGGACCCAGGAAGTGGCGGTGAGGACCCCTGGGGAGGAGTG
CAGCCCTGCCGCAACCCTGGGAGCCAGGTTGGCCGACAAGGTGAGGAAGCGGAGGAAG
GTGGATGAGGGTCTGGGGACAGTGTGCGGTGGCCAGTGGTGGTGGCCAGACCTTGGCC
CTTGCCGGGTCCCTGCCCATCGGGGACCCCAAGGCTGGACACAGTGAGAACGGGGTT
GAGGAGGACACAGAAGGTGCAACGGGGCCAAAGAAGGTACCCCTGGGAGCCATCGGAG
ACCCAGGCCCCAGCCAGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCATCGGAG
ACCCAGGCCCCCGCCAGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCATCGGAG
ACCCAGGCCCCCGCCGCGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCATCGGAG
ACCCAGGCCCCAGCCGCGCAGGACCTACAAGGATGAGCCAGCCGAGAGCCATCGGAG
ACCCAGGCCCCCGCCGCGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCATCGGAG
ACCCAGGCCCCCGCCGCGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCATCGGAG
ACCCAGGCCCCAGCCGCGCAGGACCTACAAGGATGAGCCAGCCAAGCGGGGGAGGCA
GCAGAGTTGCAGGACGCAGAGGTGGAGTCTTCTGCCAAGTCTGGGAAGCCTTAA

```

Clone variation with respect to NM\_007346.2

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_007346 unedited  
 GCACCATTTGTNATACGACTCACTATAGGCGGCCGNAATTCGCACGAGGCCAGCGCGA  
 GCCCCGCCCGCCGTACATGGACGACCCCGACTGCGACTCCACCTGGGAGACGGACGAG  
 GAGGATGCGGAGGACGCGGAGGACGAGGACTGCGAGGACGGCGAGGCCGCCGCGCGAGG  
 GACGCGGACGCGAGGGACGAGGACGAGGAGTCCGAGGAGCCGCGGGCGCGCGCCAGC  
 TCGTTCCAGTCCAGAATGACAGGGTCCAGAAACTGGCGAGCCACGAGGGACATGTGTAGG  
 TATCGGCACAACATATCCGGATCTGGTGGAAACGAGACTGCAATGGGGACACGCCAAACCTG  
 AGTTTCTACAGAAATGAGATCCGCTTCCTGCCAACGGCTGTTTCATTGAGGACATTCCT  
 CAGAACTGGACGGACAACATATGACCTCCTTGAGGACAATCACTCCTACATCCAGTGGCTG  
 TTTCTCTGCGAGAACCAGGAGTGAACGGCATGCCAAGCCCTCACGCTCAGGGAGGTC  
 GAGGTGTTTTAAAGCTCCAGGAGATCCAGGAGCGGCTTGTCCGGCCTACGAGCTCATG  
 CTGGGCTTCTACGGATCCGGCTGGAGGACCGAGGCACGGGCACGGTGGGCCGAGCACAG  
 AACTAACCAGAGCGCTTCCAGAACCTGAACTGGCGCAGCCACAACAACCTCCGCATCACA  
 CGCATTCTCAAGTCGCTGGGTGAGCTGGCCTCGAGCCTTCCAGCGCCGCTGGTCCGCT  
 TCTTCTGTGAGAGACCCTTGTGCGGCGGGAACCTGCCCGGGGTGCCGAAAAGTGCCCT  
 GGACTACTTTATGTTCCCGTGCCTGCCGAAACCAACGCCAGCTGGTGCATTCCC  
 CTGGGGAGCACTTCCGGCCCCCTGCCAGTTCGCCGGGGCCCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_007346 unedited  
 CCCTCAGAGGCGAGAAAAATCCTTTTTTTTTCAAAGTCAAATGAATTTATTCAGAAAGG  
 CCTTGCTTGGTATCAGACTAAGAAAACAGCCCTGCCCGCCGCCCCCACTCCAGAAGGGT  
 CAATTTACAAAGACAGGGGCGCAGGGGAGAGCTGGGTGGGAAGACACAGCCAGGCCAGG  
 AGGCTTCTGCAGGCCTGTTTTTCCCTGAGGGCTCGCGGCTTCTGGGGCTGCTATAGG  
 GGCCCCACAGGAGGCCAGCACTGTGGTTCATGGGTACGGGTACGAAGCAGAGCCTGAG  
 GGGAGCCCGCAGCAGCTCCGAGGCCAGCCCTGCAGCAGGGACAGGAGGACCAAGAC  
 GCCGACGGCACTCCTTTCCTTAAGGCTTCCCAGACTTGGCAGAAGACTCCACCTCTGCG  
 TCCTGCAACTCTGCTGCCTCCCCGCTTGGCTGGCTCATCCCTGTAGGTCCTGCCGGG  
 CTGGGGCTGGGGTCTCCGATGGGCTCTCGGCTGGCTCGTCCCCTGCAGGTCCTGCCGG  
 CGGNGGCTGGGGTCTCCGATGGGCTCTCGGCTGGCTCGTCCCCTGCAGGTCCTGCCGG  
 GCGGAGGCTGGGGTCTCCGATGGGCTCTCGGCTGGCTCATCCCTGTAGGTCCTGCCGG  
 GCCTGGGCTGGGGTCTCCGATGGGCTCTCGGCTGGCTCGTCCCCTGCAGGTCCTGCCGG  
 GCGGGGCTGGGGTCTCCGATGGGCTCTCGGCTGGCTCGTCCCCTGCAGGTCCTGCTGG  
 GCGGGGGCTGGGGTCTCCAGATGGGCTCTCGGCTGGCTCGGTCCTGACAGTCTGCTG  
 TGGGCTGGGGGCTGGGGTCTCCAATGGCGTCCCAAGGGGACCTCCTTTGGGCCCCGT  
 CCGAACCTCTTGTGGCTTCTAAACCCGGTCTACCTGGGTGAGCCTGGGGGCGCCCC  
 CGANGGGCGGNGAACCCGGCAAGGCCAAAGTTCGCGCACCACACTGGCCACCGAGACA  
 CGGTCCTAACACT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_007346

**Insert Size:**

2440 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\\_007346.2](#), [NP\\_031372.2](#)

**RefSeq Size:** 2423 bp

**RefSeq ORF:** 2034 bp

**Locus ID:** 11054

**UniProt ID:** [Q9NZN2](#)

**Cytogenetics:** 20q13.33

**Domains:** OGFr\_N, OGFr\_repeat

**Protein Families:** Druggable Genome

**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]