

Product datasheet for **RG216662**

OOEP (NM_001080507) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	OOEP
Synonyms:	C6orf156; FLOPED; HOEP19; KHDC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG216662 representing NM_001080507
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTCGATGATGCTGGTGCCGCTGAGTCCCAGCGGGGCAACAGACTCCGGCCCACTCCCTGGAGCAGC
TGCGTAGGTTACCACTTCCGCCGCCACAGATTCGCATCCGGCCCTGGTGGTTTCCGGTGCAGGAAGTCTGAG
AGACCCCTTTGGTGTCTACCTAGAGGCATGGCTGGCAGACGAGCTCTTTGGCCAGACCGAGCCATAATT
CCAGAAATGGAGTGGACGAGCCAGGCCCTGCTGACAGTGGACATAGTTGACTCAGGGAACCTAGTCGAAA
TCACCGTTTTTCGGGCGGCCCGGTGTACAGAATCGGGTGAAGAGCATGCTCCTGTGCCTGGCATGGTTTCA
CCGAGAACATCGTGCCCGAGCTGAGAAGATGAAACACCTTGAGAAGAAGTGAAGGCCCATGCATCAGAC
CCCCACTCTCCCAGGATCCTGTTGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216662 representing NM_001080507
Red=Cloning site Green=Tags(s)

MVDDAGAAESQRGKQTPAHSLEQLRRLPLPPPQIRIRPWFPVQELRDPLVFYLEAWLADELFGPDRAII
PEMEWTSQALLTVDIVDSGNLVEITVFGRPRVQNRVKSMLLCLAWFHREHRARAEMKHLEKNLKAHASD
PHSPQDPVA

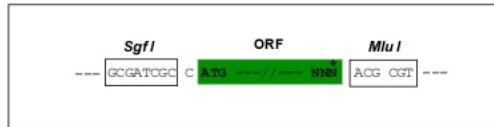
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:

Cloning sites used for ORF Shutting:



Cloning sites used for ORF Shutting:

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

HindIII NheI RsrII MluI NotI XhoI GFP Tag

CAAGCTTAAGTACTAGTAGCGGACG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

T R T R P L E M E S D - - -

PmeI FseI

--- GAA GAA AGA GTT TAA ACGCCGGCCGCGGAGCT

- - E E R V Stop

ACCN: NM_001080507

ORF Size: 447 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_001080507.1](#), [NP_001073976.1](#)

RefSeq Size: 681 bp

RefSeq ORF: 450 bp

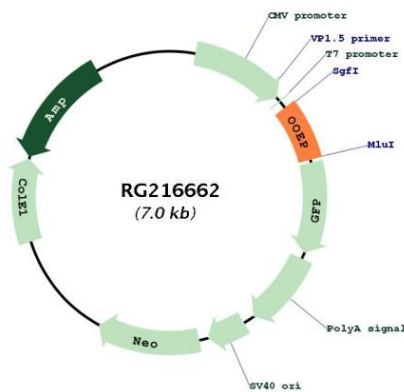
Locus ID: 441161

UniProt ID: [A6NGQ2](#)

Cytogenetics: 6q13

Gene Summary: As a member of the subcortical maternal complex (SCMC), plays an essential role for zygotes to progress beyond the first embryonic cell divisions.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG216662