

Product datasheet for **RG211107**

C1orf77 (CHTOP) (NM_015607) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C1orf77 (CHTOP) (NM_015607) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C1orf77
Synonyms:	C1orf77; C10orf77; FL-SRAG; FOP; pp7704; SRAG; SRAG-3; SRAG-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211107 representing NM_015607 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCACAGTCAGCGCCGAAAGTTGTGCTAAAAGCACCACCAAGATGTCTCTAAATGAGCGCTTTA
CTAATATGCTGAAGAACAACAGCCGACGCCAGTGAATATTCGGGCTTCGATGCAGCAACAACAGCAGCT
AGCCAGTGCCAGAACAAGACTGGCCAGCAGATGGAGAATAGACCCTCTGTCCAGGCAGCATTAAAA
CTTAAGCAGAAGAGCTTAAAGCAGCGCCTGGGTAAGAGTAACATCCAGGCACGGTTAGGCCGACCCATAG
GGCCCTGGCCAGGGGAGCAATCGGAGGACGAGGCTACCCATAATCCAGAGAGGCTTGCCAGAGGAGG
ACTACGTGGGGGACGTGCCACCAGAACCCTACTTAGGGGCGGGATGTCACTCCGAGGTCAAACCTGCTC
CGAGGTGGACGAGCCGTAGCTCCCCGAATGGGCTTAAGAAGAGGTGGTGTTCGAGGTCGTGGAGGTCCTG
GGAGAGGGGGCCTAGGGCGTGGAGCTATGGGTCGTGGCGGAATCGGTGGTAGAGGTCGGGGTATGATAGG
TCGGGGAAGAGGGGGCTTTGGAGGCCGAGGCCGAGGCGTGGACGAGGGAGAGGTGCCCTTGCTCGCCCT
GTATTGACCAAGGAGCAGCTGGACAACCAATTGGATGCATATATGTCGAAAACAAAAGGACACCTGGATG
CTGAGTTGGATGCCTACATGGCGCAGACAGATCCCGAAACCAATGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG211107 representing NM_015607
 Red=Cloning site Green=Tags(s)

MAAQSAPKVVLKSTTKMSLNERFTNMLKNKQPTPVNIRASMQQQQQLASARNRRLAQQMENRPSVQAALK
 LKQKSLKQRLGKSNIQARLGRPIGALARGAIGGRGLPIIQRLPRGGLRGGTRATRTLLRGGMSLRGQNL
 RGGRAVAPRMGLRRGGVRRGGPGRGGLGRGAMGRGGIGGRGRGMIGRGRGGFGRGRGRGRGALARP
 VLTKQLDNQLDAYMSKTKGHLDAELDAYMAQTDPETND

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015607

ORF Size: 747 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_015607.2](#), [NP_056422.2](#)

RefSeq Size: 1293 bp

RefSeq ORF: 747 bp

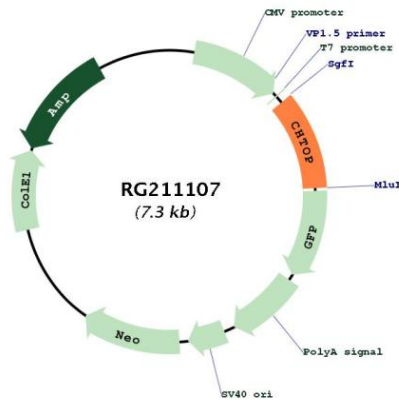
Locus ID: 26097

UniProt ID: [Q9Y3Y2](#)

Cytogenetics: 1q21.3

Gene Summary: This gene encodes a small nuclear protein that is characterized by an arginine and glycine rich region. This protein may have an important role in the regulation of fetal globin gene expression and in the activation of estrogen-responsive genes. A recent study reported that this protein binds 5-hydroxymethylcytosine (5hmC) and associates with an arginine methyltransferase complex (methylosome), which promotes methylation of arginine 3 of histone H4 (H4R3) and activation of genes involved in glioblastomagenesis. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Nov 2015]

Product images:



Circular map for RG211107