

Product datasheet for RC211107

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:	Myc-DDK
Symbol:	C1orf77
Synonyms:	C1orf77; C10orf77; FL-SRAG; FOP; pp7704; SRAG; SRAG-3; SRAG-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211107 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGGCTGCACAGTCAGCGCCGAAAGTTGTGCTAAAAGCACCACCAAGATGTCTCTAAATGAGCGCTTTA
CTAATATGCTGAAGAACAACAGCCGACGCCAGTGAATATTCGGGCTTCGATGCAGCAACAACAGCAGCT
AGCCAGTGCCAGAAACAGAAGACTGGCCAGCAGATGGAGAATAGACCCTCTGTCCAGGCAGCATTAAAA
CTTAAGCAGAAGAGCTTAAAGCAGCGCCTGGGTAAAGTAACATCCAGGCACGGTTAGGCCGACCCATAG
GGCCCTGGCCAGGGGAGCAATCGGAGGACGAGGCTACCCATAATCCAGAGAGGCTTGCCAGAGGAGG
ACTACGTGGGGGACGTGCCACCAGAACCCTACTTAGGGGCGGGATGTCACTCCGAGGTCAAACCTGCTC
CGAGGTGGACGAGCCGTAGCTCCCCGAATGGGCTTAAGAAGAGGTGGTGTTCGAGGTCGTGGAGGTCCTG
GGAGAGGGGGCTAGGGCGTGGAGCTATGGGTCGTGGCGGAATCGGTGGTAGAGGTCGGGTATGATAGG
TCGGGGAAGAGGGGGCTTTGGAGGCCGAGGCCGAGGCGTGGACGAGGGAGAGGTGCCCTTGCTCGCCCT
GTATTGACCAAGGAGCAGCTGGACAACCAATTGGATGCATATATGTCGAAAACAAAAGGACACCTGGATG
CTGAGTTGGATGCCTACATGGCGCAGACAGATCCCGAAACCAATGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC211107 protein sequence
Red=Cloning site Green=Tags(s)

MAAQSAPKVVLKSTTKMSLNERFTNMLKNKQPTPVNIRASMQQQQLASARNRRLAQQMENRPSVQAALK
 LKQKSLKQRLGKSNIQARLGRPIGALARGAIGGRGLPIIQRGLPRGGLRGGTRATRTLLRGGMSLRGQNL
 RGGRAVAPRMGLRRGGVRRGGPGRGGLGRGAMGRGGIGRGRGMIGRGRGGFGGRGRGRGRGALARP
 VLTKEQLDNQLDAYMSKTKGHLDAELDAYMAQTDPEPND

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6585_c10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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_015607.4](#)

RefSeq Size: 2172 bp

RefSeq ORF: 747 bp

Locus ID: 26097

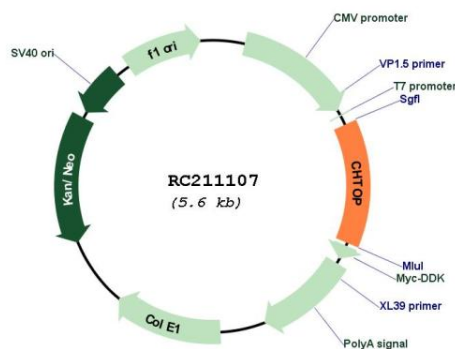
UniProt ID: [Q9Y3Y2](#)

Cytogenetics: 1q21.3

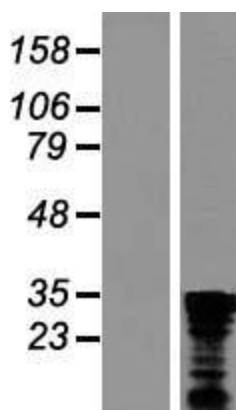
MW: 26.5 kDa

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]

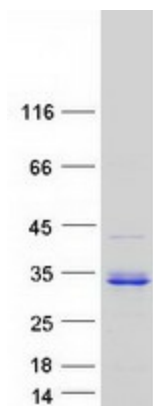
Product images:



Circular map for RC211107



Western blot validation of overexpression lysate (Cat# [LY414453]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211107 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CHTOP protein (Cat# [TP311107]). The protein was produced from HEK293T cells transfected with CHTOP cDNA clone (Cat# RC211107) using MegaTran 2.0 (Cat# [TT210002]).