

Product datasheet for **RG207139**

C12orf45 (NM_152318) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: C12orf45
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG207139 representing NM_152318
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGAGGTCCATGGCAAGCCCCAGGCTAGCCCGAGTTGTTTCGTCGCCCACCGGGATTCTCAGGAGTCC
CAGTGTCCAAGGAGCTGCTGACGGCGGGAAGCGACGGCCGCGGAGGTATATGGGACAGGTTGCTCATCAA
CTCCCAACCTAAGTCCAGAAAGACCTCCACTCTTCAAACAGTTCGGATAGAGAGGAGTCCCTTATTGGAC
CAGGTACAGACATTTCTCCACAGATGGCACGGGCAAATGAAAAGCTAAGAAAAGAAATGGCAGCTGCAC
CACCTGGTCGTTTCAATATTGAAAACATTGATGGGCCTCATAGTAAAGTTATACAAATGGATGTGGCTTT
GTTTGAGATGAATCAGTCGGATTCAAAGAAGTGGACAGTTCAGAAGAGAGTTCACAAGACAGTTCAGAG
AACAGTTCAGAATCAGAAGACGAAGATGACAGCATCCCATCTGAAGTCACCATAGATAACATTAAGCTTC
CCAATTCTGAAGGTGAAAAGGCAAGATTGAAGTTTGGACAGTCCAGCAAGTAAAAAAAAGAAATAGT
CAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207139 representing NM_152318
Red=Cloning site Green=Tags(s)

MEVHGKPAASPSCSSPTRDSSGVPVSKELLTAGSDGRGGIWDRLINSQPKSRKTSTLQTVRIERSPLLD
QQVTFLPQMARANEKLRKEMAAAPPGRFNIENIDGPHSKVIQMDVALFEMNQSDSKEVDSSEESSQDSSE
NSSESEDDDSIPSEVTIDNIKLPNSEGGKGKIEVLDPASKKKEIVK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_152318

ORF Size: 564 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_152318.1](#), [NP_689531.1](#)

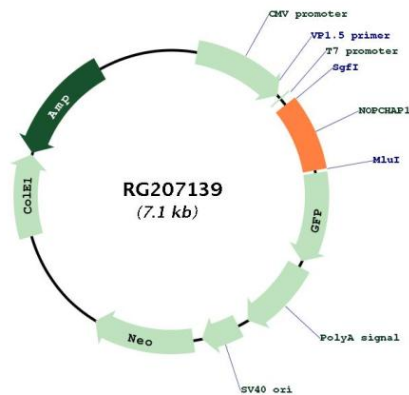
RefSeq Size: 760 bp
RefSeq ORF: 558 bp
Locus ID: 121053

UniProt ID: [Q8N5I9](#)

Cytogenetics: 12q23.3

Gene Summary: Client-loading PAQosome/R2TP complex cofactor that selects NOP58 to promote box C/D small nucleolar ribonucleoprotein (snoRNP) assembly. Acts as a bridge between NOP58 and the R2TP complex via RUVBL1:RUVBL2.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207139