

Product datasheet for **RG208471**

C12orf40 (NM_001031748) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C12orf40 (NM_001031748) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C12orf40
Synonyms:	HEL-206; HEL-S-94
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208471 representing NM_001031748
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATTGGGTCGGGGGTCCCGTCCAGGTTCTGATCAAGCAGGAAAGAAGAAAGCAAAGGAATATT
 TTGAAAAACACAGGTTAAATCAAAAATGAAATCGCTGGGAGTTTATCTCCTGTCAAAAATTCTGCTGT
 CAGCTTAGACATTCTAACCTATATATGGTAAATCAGATATCTTGCAAGAAGAAAATTCCTGAAACTGTG
 AGAAAACCAACCCATGTGAACATGAATAGAGACATAAAAAATGCCCTAAGAAAGCATAATTTAGAACTTA
 CAATGTCGCCTCACTGTGTACCTTCTAACTCTGCCTTGATGATACAGAAACCAATGAAACTGTCAAAG
 ACTAAGTAGCAAGGAAGATCTTGGCCAGTCCAGTCACAAGGCATGGACTCATATAGTATGCTTCACCCCT
 CAGTTCAGCAAAATAGAGAACTGCAGTTTCACTCCATCATCTTTTTCAGTGGAGTTACCTTCTAACAGAC
 ATATTTCAAACTAAATTTACATCTGGAATAGCACCTACTCCTCAGAACTTGCATATGAAAAAAGCA
 GAATGACCAGCGCAGTACTGTTAACTGTTCTGATTCTTCTGCTTTCCAAATTAATAAAAGTCAAGATGTT
 TTCAGTCCATCACATAAACTACACGATTTGGGACATTATTTGAAAGATTAACAGTCTAGGAAATAGGA
 ATTTACTTACTAAAAGCCCTGCTGTAATTATGGATGAAGATTGTAGAAGCACGGATGAAATAAGACAGTC
 AGACTACATTACTGAAAAACTCAATACAGCATATTTGGGGGAAAAATGGAAAGGAAGTTTCAAATTTT
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 TGATCAATGTATTAACATAGATGAGCAAAGGATAAAGAAAACATTTAACAGTGTGATTATGATAGTAT
 GGGAGATACTTGTGTAGTCACTAGTTCTGATAAAAACCATGTCACTGACAGATGCATTAGAAACATTTT
 ACAGTTCAGAGTTGACTTTTAGTAATTCGACTTTGAATAAAACAAGTTATCCAGAAAAATGTCAGCCAA
 ACAAGAAGTATCAGAGAGAGTATAACAAAAATGAAAGAAATGATCTTAGTACATCTTTTGAGAAGATTA
 CTACCAAGCAGCTCTGAAAGAAAAGAAAAATTTGAAAATGATTACCAAGAGAAGACACCACAGAAAAGT
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 ACTTTGGACTTGATGAGATTCTGATGGAAGAAGGAGGAATATATCTTTAAAAAGCAAGCGAATATCTAC
 TAAGAAAATCTCTCTTATTCTGCACAGAGTAGTCGGTCTACTAGTTACTCTCCAAGACCAACAGACAGC
 TGTTTCAGTTCTAGTTCAGATTTGCCATCTGAAGATGAAGATCAAATATCACAGCAAATGAAGATTCAA
 ATAGGATGACCATCAAAACCAAGAAAAAATGAATAATTTTTATGTAGAAAGGATGGCAAACTTTCAGG
 TGACAGGATTGTTAAAAACGATGACAAAATTCACAAACAGAATGAGAATTTCTACCAGTTCTCAGTGAAA
 AATAATACAGATCAGTTCCACAGTTGCAGTGCATTCAGCCACATTTTGCAAAACAAAACCAATGATA
 ACTGCGTTCTGCAGGCTGCAAGGTGTGATGCAGGGATACAACAGAGAGTGAATCTGTAATGGAGGAAAA
 ATTAGATGTTGCCATACAGTGTGATCTAATTTCAAATGTACATGTAGAAGTGTATTTCTCTTTGCAAC
 CTTGAAAGGTGCAGTGGAAATATTAAGGCAGATACCACTGGAGGGCAGGAAATCCATAAGAACAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208471 representing NM_001031748
 Red=Cloning site Green=Tags(s)

MNWVGGSRSRVL IKQERRKQKEYFEKHLKSKMKS LGVLS PVKNSAVSLDILNL YMVNQI SCKKKIPETV
 RKPTHVNMNRDIKMP LRKHLEL TMSPHCVPSKLCLDDTETNVNCRQLSSKEDLGPVQS QGMDSYSMLHP
 QFSKIENCSFTPSSFV SVELPSNRHISKLNFTSGIAPTQK LAYEKKQNDQRSTVNCSDSLLSKLNKSQDV
 FSPSHKTRFGTL FERLNSLGNRNLTKSPAVIMDEDCRSTDEIRQSDYITEKHSIQHIWGKNGKEVSNF
 LEDVNVQSTPNLLSENCSFV SQNMINVLNIDEQR IKKTFNKCDYDSMGDTCVVTSDDKNHVTDR CIRNIF
 TVPELTF SNSTLNKTSYPEKCPNKKYQREYNKNERNDLSTSFENDYYPSSSERKEKFENDYQEKTPQKS
 IQKYPANSMGNIPSEEL HSKQSWDFGLDEILMEEGGIYSLKSKRISTKKS LDSAQSSRSTSYSPRPTDS
 CFSSSSDLPSEDEDQISQQI EDSNRMTIKTKEKMNNFYVERMAKLSGDRIVKNDK IHKQNFYQFSVK
 NNTDQFPQLQCNSAHILQNK TNDNCVLQAARCDAGIQTESESVMEEKLDVAIQCDLISKCTCRSDVSLCN
 LERCSGNIKADTTGGQE IHKNN

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001031748

ORF Size: 1956 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_001031748.2](#), [NP_001026918.2](#)

RefSeq Size: 2797 bp

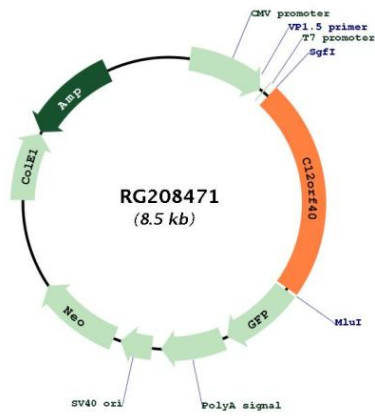
RefSeq ORF: 1959 bp

Locus ID: 283461

UniProt ID: [Q86WS4](#)

Cytogenetics: 12q12

Product images:



Circular map for RG208471