

Product datasheet for **RG222348**

keratin 40 (KRT40) (NM_182497) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	keratin 40 (KRT40) (NM_182497) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	keratin 40
Synonyms:	CK-40; K40; KA36
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222348 representing NM_182497 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTTCTGACTGCTCCTCCACACTGCTCTCCTGAGTCCTGTGGCACGGTTCGGTTGTGCACCTG
CCTCAAGCTGCTCCGTGGAAACAGCTTGCTCCCCGGTACCTGTGCTACATCCCGATGTCAGACTCCAAG
CTTCTATCCAGGTCTCGCGGGTACTGGTTGCCTCCTGCCATGCTACTTTACTGGGAGTTGTAATAGT
CCCTGCTTGGTGGGAACTGTGCCTGGTGTGAGGATGGGGTGTCTACTAGCAATGAGAAGGAGACGATGC
AGTTCCGAATGACAGACTCGCCAGCTATCTGGAGAAGGTGCGCAGCCTGGAGGAGACCAACGCAGAGCT
GGAATCCAGGATCCAAGAACAATGTGAACAGGATATCCCAATGGTGTGCCCGATTATCAGCGTTACTTC
AACACCATTGAAGATCTCCAACAAAAGATCTTATGCACGAAAGCAGAGAATTCTAGACTTGTGTACAGC
TTGACAACTGCAAACTGGCCACTGATGACTTTAAGTCAAAGTACGAGAGTGAAGTGTCCCTTCGCCAGCT
GTTAGAGGCTGACATCAGCAGCCTGCAATGGGATCCTGGAGGAACTGACCCTGTGCAAATCTGATCTGGAG
GCCCATGTGGAGTCTCTGAAGGAAGATCCTTTGCCTTAAGAAAAACCTGAAGAGGAAGTCAACTTGC
TTCGTGAACAGCTTGGCGACCGCCTCAGTGTGGAGCTGGACACTGCCCCACCCTTGACCTCAACAGGGT
CCTGGATGAGATGCGCTGTCAGTGTGAAACGGTGTCTTCCAAACATCGCAGAGAAGCTGAAGAATGGTTG
GCTGTTCCAGACAGAAGAGCTGAATCAGCAGCAACTGTCCAGCGCGGAGCAGCTGCAGGGCTGCCAGATGG
AGATCTTGAACTGAAACGCACAGCCAGTGTCTGGAAATTTAGCTCCAAGCACAGCAAAGCCTGACAGA
ATCTCTGGAATGCACCGTGGCAGAAACCGAGGCCAGTACAGCTCCAGCTGGCCCAAATTCAGTGTCTG
ATCGATAACCTGGAGAACCAGCTGGCCGAGATCCGCTGCGACCTGGAGCGACAGAACCAGGAGTACCAGG
TGCTCCTGGACGTGAAGGCCCGCTGGAGGGTGAATCAACACGTACTGGGGCCTGCTGGACAGCGAGGA
CAGCAGGCTTTCCTGTAGCCCATGTTTCGACCACATGCACCTCGAGCAACACTTGTGAGCCATGCTCAGCC
TATGTCATCTGCACTGTTGAAAAGTCTGCTTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222348 representing NM_182497
 Red=Cloning site Green=Tags(s)

MTSDCSSTHCSPESCGTASGCAPASSCSVETACLPGTCATSRQCQTPSFLSRSRGLTGCLLPCYFTGSCNS
 PCLVGNCAWCEDGVFTSNEKETMQFLNDRLASYLEKVRSLLEETNAELESRIQEQCEQDIPMVCPDYQRYF
 NTIEDLQQKILCTKAENSRLAVQLDNCKLATDDFKSKYESELSLRQLLEADISSLHGILEELTLCKSDLE
 AHVESLKEDLLCLKKNHEEEVNLREQLGDRLSVELDTAPTLDLNRVLDDEMRCQCETVLANNRREAEEWL
 AVQTEELNQQLSSAEQLQGCQMEILELKRASALEIELQAQQLTESLECTVAETEAQYSSQLAQIQCL
 IDNLENQLAEIRCDLERQNEYQVLLDVKARLEGEINTYWGLLSEDSRLSCSPCSTTCTSSNTCEPCSA
 YVICTVENCC

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_182497

ORF Size: 1293 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_182497.4](#)

RefSeq Size: 1813 bp

RefSeq ORF: 1296 bp

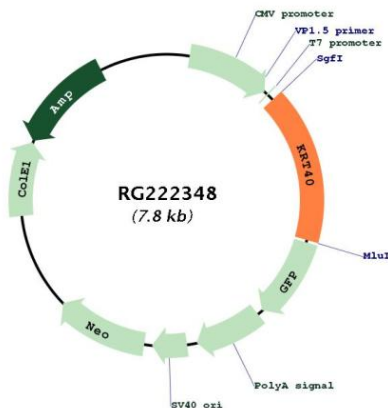
Locus ID: 125115

UniProt ID: [Q6A162](#)

Cytogenetics: 17q21.2

Gene Summary: This gene encodes a member of the type I (acidic) keratin family, which belongs to the superfamily of intermediate filament (IF) proteins. Keratins are heteropolymeric structural proteins which form the intermediate filament. These filaments, along with actin microfilaments and microtubules, compose the cytoskeleton of epithelial cells. The type I keratin genes are clustered in a region of chromosome 17q12-q21. [provided by RefSeq, Jul 2009]

Product images:



Circular map for RG222348