

Product datasheet for **RG210049**

Cytokeratin 18 (KRT18) (NM_199187) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytokeratin 18 (KRT18) (NM_199187) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cytokeratin 18
Synonyms:	CK-18; CYK18; K18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210049 representing NM_199187 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTTCACCACTCGCTCCACCTTCTCCACCACTACCGGTCCCTGGGCTCTGTCCAGGCGCCAGCT
ACGGCGCCCGCCGGTCAGCAGCGCGCCAGCGTCTATGCAGGCGCTGGGGCTCTGGTTCCCGGATCTC
CGTGTCCCGCTCCACCAGCTTCAGGGCGGCATGGGTCCGGGGCTGGCCACCGGGATAGCCGGGGT
CTGGCAGGAATGGGAGGCATCCAGAACGAGAAGGAGACCATGCAAAGCCTGAACGACCGCCTGGCCTCTT
ACCTGGACAGAGTGAGGAGCCTGGAGACCGAGAACCGGAGGCTGGAGAGCAAAATCCGGGAGCACTTGA
GAAGAAGGACCCAGGTGAGAGACTGGAGCCATTACTTCAAGATCATCGAGGACCTGAGGGCTCAGATC
TTCGCAAATACTGTGGACAATGCCCGCATCGTTCTGCAGATTGACAATGCCCGTCTTGCTGCTGATGACT
TTAGAGTCAAGTATGAGACAGAGCTGGCCATGCGCCAGTCTGTGGAGAACGACATCCATGGGCTCCGCAA
GGTCATTGATGACACCAATATCACAGACTGCAGCTGGAGACAGAGATCGAGGCTCTCAAGGAGGAGCTG
CTTTCATGAAGAAGAACCACGAAGAGGAAGTAAAAGGCTACAAGCCAGATTGCCAGCTCTGGTTGA
CCGTGGAGGTAGATGCCCCAAATCTCAGGACCTCGCCAAGATCATGGCAGACATCCGGGCCAAATGA
CGAGCTGGCTCGGAAGAACCAGAGGAGCTAGACAAGTACTGGTCTCAGCAGATTGAGGAGACACCACA
GTGGTCACCACACAGTCTGCTGAGTTGGAGCTGCTGAGACGAGCTCACAGAGCTGAGACGTACAGTCC
AGTCTTGGAGATCGACCTGGACTCCATGAGAAATCTGAAGGCCAGCTTGGAGAACAGCCTGAGGGAGGT
GGAGGCCCGCTACGCCCTACAGATGGAGCAGCTCAACGGGATCCTGCTGCACCTTGAATCAGAGCTGGCA
CAGACCCGGGACAGGGACAGCGCCAGGCCAGGAGTATGAGGCCCTGCTGAACATCAAGGTCAAGCTGG
AGGCTGAGATCGCCACCTACCGCCGCTGCTGGAAGATGGCGAGGACTTAACTTGGTATGCCTTGA
CAGCAGCAACTCCATGCAAACATCCAAAAGACCACCACCGCCGATAGTGGATGGCAAAGTGGTGTCT
GAGACCAATGACACCAAAGTTCTGAGGCAT

ACGCGTACGGCGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210049 representing NM_199187
Red=Cloning site Green=Tags(s)

```
MSFTTRSTFSTNYRSLGSVQAPSYGARPVSSAASVYAGAGGSGSRI SVSRSTSFRRGMGSGGLATGIAGG
LAGMGGIQNEKETMQSLNDRLASYLDRVRSLETENRRLESKIREHLEKKGPOVRDWSHYFKI IEDLRAQI
FANTVDNARIVLQIDNARLAADDFRVKYETELAMRQSVENDIHGLRKVIDDTNITRLQLETEIEALKEEL
LFMKKNHEEEVKGLQAQIASSGLTVEVDAPKSQLAKIMADIRAQYDELARKNREELDKYWSQQIEESTT
VVTTQSAEVGAAETTLTELRRTVQSLEIDLDSMRNLKASLENSLREVEARYALQMEQLNGILLHLESELA
QTRAEGQRQAQYEALLNIKVKLEAEIATYRRLLEDGEDFNLGDALDSSNSMQTIQKTTTRRIVDGKVVV
ETNDTKVLRH
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_199187

ORF Size: 1290 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_199187.1](#), [NP_954657.1](#)

RefSeq Size: 1439 bp

RefSeq ORF: 1293 bp

Locus ID: 3875

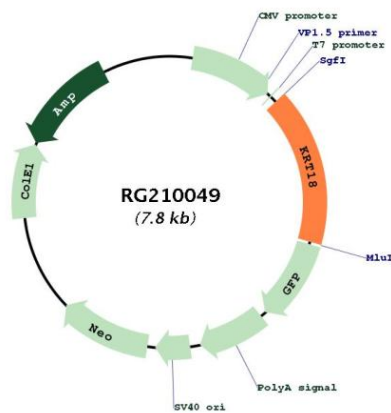
UniProt ID: [P05783](#)

Cytogenetics: 12q13.13

Protein Pathways: Pathogenic Escherichia coli infection

Gene Summary: KRT18 encodes the type I intermediate filament chain keratin 18. Keratin 18, together with its filament partner keratin 8, are perhaps the most commonly found members of the intermediate filament gene family. They are expressed in single layer epithelial tissues of the body. Mutations in this gene have been linked to cryptogenic cirrhosis. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210049