

## Product datasheet for **RG234320**

### Cytokeratin 8 (KRT8) (NM\_001256282) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cytokeratin 8 (KRT8) (NM_001256282) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cytokeratin 8
Synonyms:	CARD2; CK-8; CK8; CYK8; K2C8; K8; KO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234320 representing NM\_001256282  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAATGGGGTGAGCTGGAGCCAGGACCTGCAGGAAGGGATCTCCGCCTGGTTTCGCCCGCCTGCCTCCA  
 CTCTGCCTCTACCATGTCCATCAGGGTGACCCAGAAGTCTACAAGGTGCCACCTCTGCCCCCGGGC  
 CTTTCAGCAGCCGCTCTACACGAGTGGGCCCGGTTCCCGCATCAGCTCCTCGAGTTCTCCCGAGTGGGC  
 AGCAGCAACTTTTCGCGGTGGCCTGGCGCGCGCTATGGTGGGGCCAGCGGCATGGGAGGCATCACCGCAG  
 TTACGGTCAACCAGAGCCTGCTGAGCCCCCTTGTCTGGAGGTGGACCCCAACATCCAGGCCGTGCGCAC  
 CCAGGAGAAGGAGCAGATCAAGACCTCAACAACAAGTTGCCTCCTCATAGACAAGGTACGGTTCCTG  
 GAGCAGCAGAACAAGATGCTGGAGACCAAGTGGAGCCTCTGCAGCAGCAGAAGACGGCTCGAAGCAACA  
 TGGACAACATGTTTCGAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCCAGGAGAAGT  
 GAAGCTGGAGGCCGAGCTTGGCAACATGCAGGGGCTGGTGGAGGACTTCAAGAACAAGTATGAGGATGAG  
 ATCAATAAGCGTACAGAGATGGAGAACGAATTTGTCTCATCAAGAAGGATGTGGATGAAGCTTACATGA  
 ACAAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACCGACGAGATCAACTTCCTCAGGCAGCTATATGA  
 AGAGGAGATCCGGGAGCTGCAGTCCCAGATCTCGGACACATCTGTGGTGTGTCCATGGACAACAGCCGC  
 TCCCTGGACATGGACAGCATCATTGCTGAGGTCAAGGCACAGTACGAGGATATTGCCAACCCGAGCCGGG  
 CTGAGGCTGAGAGCATGTACCAGATCAAGTATGAGGAGCTGCAGAGCCTGGCTGGGAAGCACGGGGATGA  
 CCTGCGGCGCACAAAGACTGAGATCTCTGAGATGAACCGGAACATCAGCCGGCTCCAGGCTGAGATTGAG  
 GGCCTCAAAGGCCAGAGGGCTTCCCTGGAGGCCGCCATTGCAGATGCCGAGCAGCTGGAGAGCTGGCCA  
 TTAAGGATGCCAACGCCAAGTTGTCGAGCTGGAGGCCGCCCTGCAGCGGCCAACGAGGACATGGCCGG  
 GCAGCTGCGTGAGTACCAGGAGCTGATGAACGTCAAGCTGGCCCTGGACATCGAGATCGCCACCTACAGG  
 AAGCTGTGGAGGGCAGGAGAGCCGGCTGGAGTCTGGGATGCAGAACATGAGTATTCATACGAAGACCA  
 CCAGCGGCTATGCAGGTGGTCTGAGCTCGGCCTATGGGGCCTCACAAAGCCCGCCTCAGCTACAGCCT  
 GGGCTCCAGCTTTGGCTCTGGCGCGGGCTCCAGCTCCTCAGCCGACACAGCTCCTCCAGGGCCGTGGTT  
 GTGAAGAAGATCGAGACAGTGTGGGAAGCTGGTGTCTGAGTCTCTGACGTCTGCCCAAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG234320 representing NM\_001256282  
 Red=Cloning site Green=Tags(s)

MNGVSWSQLQEGISAWFGPPASTPASTMSIRVTQKSYKVSTSGPRAFSSRSYTSGPSRISSSSFSRVG  
 SSNFRGGLGGYGGASGMGGITAVTVNQSLLSPLVLEVPNIQAVRTQEKEQIKTLNKFASFIDKVRFL  
 EQQNKMLETKWSLLQQQKTARSNMNMFSYINLRQLETLGQEKLEAELGNMQGLVEDFKNKYEDE  
 INKRTEMENEFVLIKDVDDEAYMNKVELESRLGLTDEINFLRQLYEEEIRELQSQISDTSVVLSDNSR  
 SLDMSIIAEVKAQYEDIANRSRAEASMYQIKYEELQSLAGKHGDDLRRTKTEISEMNRNISRQAEIE  
 GLKGQRASLEAAIADAEQRGELAIKDANAKLSELEAALQRAKQDMARQLREYQELMNVKALDIEIATYR  
 KLLLEGEESRLESGMQNMSIHTKTTSGYAGGLSSAYGGLTSPGLSYSLGSSFGSGAGSSSFSRTSSSRVAV  
 VKKIETRDGKLVSESSDVLPK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001256282

**ORF Size:** 1533 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\\_001256282.2](#)

**RefSeq Size:** 1807 bp

**RefSeq ORF:** 1536 bp

**Locus ID:** 3856

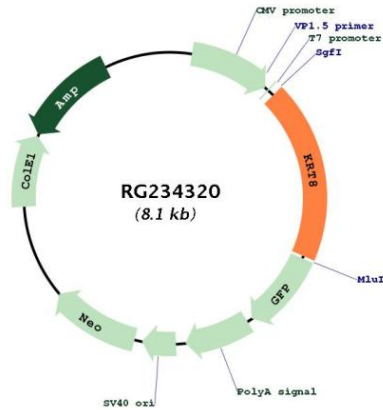
**Cytogenetics:** 12q13.13

**Protein Families:** Druggable Genome

**Gene Summary:**

This gene is a member of the type II keratin family clustered on the long arm of chromosome 12. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. The product of this gene typically dimerizes with keratin 18 to form an intermediate filament in simple single-layered epithelial cells. This protein plays a role in maintaining cellular structural integrity and also functions in signal transduction and cellular differentiation. Mutations in this gene cause cryptogenic cirrhosis. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2012]

**Product images:**



Circular map for RG234320