

Product datasheet for **RG234231**

Cytokeratin 8 (KRT8) (NM_001256293) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytokeratin 8 (KRT8) (NM_001256293) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KRT8
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:

>RG234231 representing NM_001256293
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCATCAGGGTGACCCAGAAGTCCTACAAGGTGTCCACCTCTGGCCCCGGGCTTCAGCAGCCGCT
 CCTACACGAGTGGGCCCGGTTCCCGCATCAGCTCCTCGAGCTTCTCCCGAGTGGGCAGCAGCAACTTTCCG
 CGGTGGCCTGGGCGCGGCTATGGTGGGGCCAGCGGCATGGGAGGCATCACCGCAGTTACCGTCAACCCAG
 AGCCTGCTGAGCCCCCTGTCTGGAGGTGGACCCCAACATCCAGGCCGTGCGCACCCAGGAGAAGGAGC
 AGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCATAGACAAGGTACGGTTCTGGAGCAGCAGAACAA
 GATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGACGGCTCGAAGCAACATGGACAACATGTTT
 GAGAGCTACATCAACAACCTTAGCGGCAGCTGGAGACTCTGGGCCAGGAGAAGCTGAAGCTGGAGGCGG
 AGCTTGGAACATGCAGGGGCTGGTGGAGACTTCAAGAACAAGTATGAGGATGAGATCAATAAGCGTAC
 AGAGATGGAGAACGAATTTGCTCATCAAGAAGGATGTGGATGAAGCTTACATGAACAAGTAGAGCTG
 GAGTCTCGCCTGGAAGGGCTGACCGACGAGATCAACTTCTCAGGCAGCTATATGAAGAGGAGATCCGGG
 AGCTGCAGTCCCAGATCTCGGACACATCTGTGGTGTCCATGGACAACAGCCGCTCCCTGGACATGGA
 CAGCATCATTGCTGAGGTCAAGGCACAGTACGAGGATATTGCCAACCGCAGCCGGGCTGAGGCTGAGAGC
 ATGTACCAGATCAAGTATGAGGAGCTGCAGAGCCTGGCTGGGAAGCACGGGGATGACCTGCGCGCCACAA
 AGACTGAGATCTCTGAGATGAACCGAACATCAGCCGGCTCCAGGCTGAGATTGAGGGCTCAAAGGCCA
 GAGGGCTTCCCTGGAGGCCGCCATTGCAGATGCCGAGCAGCGTGGAGAGCTGGCCATTAAAGATGCCAAC
 GCCAAGTTGTCCGAGCTGGAGGCCGCCCTGCAGCGGCCAAGCAGGACATGGCGCGGCAGCTGCTGAGT
 ACCAGGAGCTGATGAACGTCAAGCTGGCCCTGGACATCGAGATGCCACCTACAGGAAGCTGCTGGAGGG
 CGAGGAGAGCCGGCTGGAGTCTGGGATGCAGAACATGAGTATTCATACGAAGACCACCGCGCTATGCA
 GGTGGTCTGAGCTCGGCCTATGGGGCCTCACAAGCCCCGGCCTCAGCTACAGCCTGGGCTCCAGCTTTG
 GCTCTGGCGCGGCTCCAGCTCCTTCAGCCGACCAGCTCCTCCAGGGCCGTGGTTGTGAAGAAGATCGA
 GACACGTGATGGGAAGCTGGTGTCTGAGTCTCTGACGTCTGCCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234231 representing NM_001256293
 Red=Cloning site Green=Tags(s)

MSIRVTQKSYKVSTSGPRAFSSRSYTSVPGSRISSSSFSRVGSSNFRGGLGGYGGASGMGGITAVTVNQ
 SLLSPLVLEVPNIQAVRTQEKEQIKTLNKFASFIDKVRFLQKMKLETWLLQQKTARSNDNMF
 ESYINLRRQLETLGQEKLEAELGNMQGLVEDFKNKYEDEINKRTEMENEFVLIKKDVEAYMNKVEL
 ESRLEGLTDEINFLRQLYEEIRELQSISDTSVVLSDMNSRSLDMSIIAEVKAQYEDIANRSRAEAS
 MYQIKYEELQSLAGKHGDDLRRTKTEISEMNRNISRLQAEIEGLKGRASLEAAIADAEQRGELAIKDN
 AKLSELEAALQRAKQDMARQLREYQELMNVKLALDIEIATYRKLLGEEESRLESGMQNMSIHTKTTSGYA
 GGLSSAYGGLTSPGLSYSLGSSFGSAGSSSFSRTSSRAVVVKKIETRDGKLVSESSDVLPK

TRTRPLE - GFP Tag - V

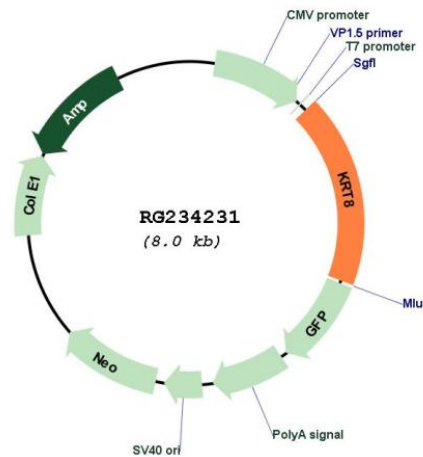
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001256293

ORF Size: 1449 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:	<ol style="list-style-type: none">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_001256293.2
RefSeq Size:	1901 bp
RefSeq ORF:	1452 bp
Locus ID:	3856
UniProt ID:	P05787
Cytogenetics:	12q13.13
Protein Families:	Druggable Genome
Gene Summary:	<p>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]</p>