

## Product datasheet for SC126451

### Cytokeratin 8 (KRT8) (BC008200) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cytokeratin 8 (KRT8) (BC008200) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytokeratin 8
Synonyms:	CARD2; CK8; CYK8; cytokeratin 8; K2C8; K8; keratin, type II cytoskeletal 8; Keratin 8; KO
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for BC008200 edited  
 ATCAAGACCCTCAACAACAAGTTTGCCTCCTTCATAGACAAGGTACGGTTCTGGAGCAG  
 CAGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGAGAAGACGGCTCGAAGC  
 AACATGGACAACATGTTGAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTG  
 GGCCAGGAGAAGCTGAAGCTGGAGGCGGAGCTTGCAACATGCAGGGGCTGGTGGAGGAC  
 TTCAAGAACAAGTATGAGGATGAGATCAATAAGCGTACAGAGATGGAGAACGAATTTGTC  
 CTCATCAAGAAGGATGTGGATGAAGCTTACATGAACAAGGTAGAGCTGGAGTCTCGCCTG  
 GAAGGGCTGACCGACGAGATCAACTTCTCAGGCAGCTATATGAAGAGGAGATCCGGGAG  
 CTGCAGTCCCAGATCTCGGACACATCTGTGGTGTGTCCATGGACAACAGCCGCTCCCTG  
 GACATGGACAGCATCATTGCTGAGGTCAAGGCACAGTACGAGGATATTGCCAACCGCAGC  
 CGGGCTGAGGCTGAGAGCATGTACCAGATCAAGTATGAGGAGCTGCAGAGCCTGGCTGGG  
 AAGCACGGGGATGACCTGCGGCGCACAAGACTGAGATCTCTGAGATGAACCGGAACATC  
 AGCCGGCTCCAGGCTGAGATTGAGGGCCTCAAAGGCCAGAGGGCTTCCCTGGAGGCCGCC  
 ATTGCAGATGCCGAGCAGCGTGGAGAGCTGGCCATTAAGGATGCCAACGCCAAGTTGTCC  
 GAGCTGGAGGCCGCCCTGCAGCGGGCCAAGCAGGACATGGCGCGGAGCTGCGTGAGTAC  
 CAGGAGCTGATGAACGTCAAGCTGGCCCTGGACATCGAGATCGCCACCTACAGGAAGCTG  
 CTGGAGGGCGAGGAGAGCCGGCTGGAGTCTGGGATGCAGAACATGAGTATTCATACGAAG  
 ACCACCAGCGGTATGCAGGTGGTCTGAGCTCGGCCTATGGGGCCTCACAAAGCCCGGC  
 CTCAGTACAGCCTGGGCTCCAGCTTTGGCTCTGGCGGGCTCCAGCTCCTTCAGCCGC  
 ACCAGCTCTCCAGGGCGTGGTTGTGAAGAAGATCGAGACACGTGATGGGAAGCTGGTG  
 TCTGAGTCTCTGACGTCTGCCAAGTGAACAGCTGCGGCAGCCCTCCAGCCTACCC  
 CTCCTGCGCTGCCCCAGAGCCTGGGAAGGAGGCCGCTATGCAGGGTAGCACTGGGAACAG  
 GAGACCCACCTGAGGCTCAGCCCTAGCCCTCAGCCACCTGGGGAGTTTACTACCTGGGG  
 ACCCCCTTGCCCATGCCTCCAGCTACAAAACAATTCAATTGCTTTTTTTTTTTGGTCCA  
 AAATAAACCTCAGCTAGCTCTGCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC008200 unedited AGATTTTGTAAACGACTTATATAGGCGGACCGCGAATCAGATCTGGTACCGGTCCGGAAT TCCCGGGATATCGTCGACCCACGCGTCCGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGC AGAAGACGGCTCGAAGCAACATGGACAACATGTTTCGAGAGCTACATCAACAACCTTAGGC GGCAGCTGGAGACTCTGGCCAGGAGAAGCTGAAGCTGGAGGCGGAGCTTGGCAACATGC AGGGCTGGTGGAGGACTTCAAGAACAAGTATGAGGATGAGATCAATAAGCGTACAGAGA TGGAGAACGAATTTGTCCTCATCAAGAAGGATGTGGATGAAGCTTACATGAACAAGGTAG AGCTGGAGTCTCGCCTGGAAGGGCTGACCGACGAGATCAACTTCCTCAGGCAGCTATATG AAGAGGAGATCCGGGAGCTGCAGTCCCAGATCTCGGACACATCTGTGGTGTGTCCATGG ACAACAGCCGCTCCCTGGACATGGACAGCATCATTGCTGAGGTCAAGGCACAGTACGAGG ATATTGCCAACCGCAGCCGGGCTGAGGCTGAGAGCATGTACCAGATCAAGTATGANGAGC TGCAGAGCCTGGTGGGAAGCACGGNGATGACCCTGCGCGCACAAAGACTGAGATCTCTG AGATGAACCGGACATCAGCCCGCTCCAGGCTGAGATTGAGGGCCCTCAAGCCAGAGGGC TTCCTGGAGGCCGATTGCAAATGCCAGCAACGTGGAAGCTGGGCACTAAAGATGCCA ACCCCAATTGTCCGAGCTTGAGGCCCCCTGCAGCGGGGCAAACAGAAAATGCCCGGGCA ACTGCCTGAATACCCAGAGCTGATGAACTTAACTGGGCCTGGACATTAATAATCCGCACC TACAGAACTTCTTGAAGCCAGAGAAAACCGCTTGAATTGGAATCGCCAAAT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC008200
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">BC008200.1</a> , <a href="#">AAH08200.1</a>
<b>RefSeq Size:</b>	1437 bp
<b>Locus ID:</b>	3856
<b>Cytogenetics:</b>	12q13.13
<b>Protein Families:</b>	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]