

## Product datasheet for **SC118727**

### Cytokeratin 8 (KRT8) (NM\_002273) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                                   |
| Product Name:             | Cytokeratin 8 (KRT8) (NM_002273) Human Untagged Clone |
| Tag:                      | Tag Free  |
| Symbol:                   | Cytokeratin 8   |
| Synonyms:                 | CARD2; CK-8; CK8; CYK8; K2C8; K8; KO                  |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>                      |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                |



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**Fully Sequenced ORF:** >OriGene ORF within SC118727 sequence for NM\_002273 edited (data generated by NextGen Sequencing)

```

ATGTCCATCAGGGTGACCCAGAAGTCTACAAGGTGTCCACCTCTGGCCCCGGGCTTC
AGCAGCCGCTCTACACGAGTGGGCCGGTTCCTCGATCAGCTCTCGAGCTTCTCCGA
GTGGGCAGCAGCAACTTTCGCGTGGCTGGCGGGCGCTATGGTGGGGCCAGCGCATG
GGAGGCATCACCGCAGTTACGGTCAACCAGAGCCTGCTGAGCCCCCTTGTCTGGAGGT
GACCCCAACATCCAGCCGTGCGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAACAAC
AAGTTTGCCTCCTTCATAGACAAGGTACGGTTCCTGGAGCAGCAGAACAAGATGCTGGAG
ACCAAGTGGAGCCTCCTGCAGCAGCAGAAGACGGCTCGAAGCAACATGGACAACATGTTT
GAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCCAGGAGAAGCTGAAG
CTGGAGGCGGAGCTTGGCAACATGCAGGGGCTGGTGGAGGACTTCAAGAACAAGTATGAG
GATGAGATCAATAAGCGTACAGAGATGGAGAACGAATTTGCTCATCAAGAAGGATGTG
GATGAAGCTTACATGAACAAGGTAGAGCTGGAGTCTCGCTGGAAGGGCTGACCGACGAG
ATCAACTTCTCAGGCAGCTGTATGAAGAGGAGATCCGGGAGCTGCAGTCCAGATCTCG
GACACATCTGTGGTGTCTGCCATGGACAACAGCCGCTCCTGGACATGGACAGCATCATT
GCTGAGGTCAAGGCACAGTACGAGGATATTGCCAACCGCAGCCGGCTGAGGCTGAGAGC
ATGTACCAGATCAAGTATGAGGAGCTGCAGAGCCTGGCTGGGAAGCACGGGGATGACCTG
CGGCGCACAAAGACTGAGATCTCTGAGATGAACCGGAACATCAGCCGGCTCCAGGCTGAG
ATTGAGGGCTCAAAGGCCAGAGGGCTTCCCTGGAGGCCGCCATTGCAGATGCCGAGCAG
CGTGGAGAGCTGGCCATTAAGGATGCCAACGCCAAGTTGTCCGAGCTGGAGGCCGCCCTG
CAGCGGGCCAAGCAGGACATGGCGCGCAGCTGCGTGAGTACCAGGAGCTGATGAACGTC
AAGCTGGCCCTGGACATCGAGATCGCCACCTACAGGAAGCTGCTGGAGGGCGAGGAGAGC
CGGCTGGAGTCTGGGATGCAGAACATGAGTATTACATACGAAGACCACAGCGGCTATGCA
GGTGGTCTGAGCTCGCCCTATGGGGGCTCACAAAGCCCGCCTCAGCTACAGCCTGGGC
TCCAGCTTTGGCTCTGGCGGGCTCCAGCTCCTTCAGCCGCACCAAGCTCCTCCAGGGCC
GTGTTGTGAAGAAGATCGAGACACGTGATGGGAAGCTGGTGTCTGAGTCTCTGACGTC
CTGCCAAGTGA
    
```

Clone variation with respect to NM\_002273.3  
681 a=>g

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_002273 unedited

```

ACGGTCACGATTTGTATACGACTCACTATAGGGCGGCCGCGATTCCGGCACGAGGCTTCTC
CGCTCCTTCTAGGATCTCCGCTGGTTCGGCCCCGCTGCCTCCACTCCTGCCTCCACCAT
GTCCATCAGGGTGACCCAGAAGTCTACAAGGTGTCCACCTCTGGCCCCGGGCTTCCAG
CAGCCGCTCCTACACGAGTGGGCCGGTTCCTCGATCAGCTCCTCGAGCTTCTCCGAGT
GGGCAGCAGCAACTTTCGCGTGGCTGGCGGGCGCTATGGTGGGGCCAGCGGCATGGG
AGGCATCACCGCAGTTACGGTCAACCAGAGCCTGCTGAGCCCCCTTGTCTGGAGGTGGA
CCCCAACATCCAGCCGTGCGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAACAACAA
GTTTGCCTCCTTCATAGACAAGGTACGGTTCCTGGAGCAGCAGAACAAGATGCTGGAGAC
CAAGTGGAGCCTCCTGCAGCAGCAGAAGACGGCTCGAAGCAACATGGACAACATGTTTGA
GAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCCAGGAGAAGCTGAAGCT
GGAGGCGGAGCTTGGCAACATGCAGGGGCTGGTGGAGGACTTCAAGAACAAGTATGAGGA
TGAGATCAATAAGCGTACAGAGATGGAGAACGAATTTGNCCTCATCAAGAAAGATGTGGA
TGAAGCCTACATGAACAAGTAANAGCTGGAGTCTCGCTGGAAGGCTGACCGACGAGATC
ACTTCTCCAGCAGCTGTATGAAGAAGAGATCCGGGAGCTGAGTCCCAGATCTCGGCA
CATCTGTGGTGTCTCCATGGACACAGCCGTTCCCTGGCATGGACAGCTCATTGCTTAGG
TAAGCCCAA
    
```

|                                     |   |
|-------------------------------------|---|
| <b>3' Read Nucleotide Sequence:</b> | >OriGene 3' read for NM_002273 unedited<br>AGAGTCGAGCCCTTTCGACATTGGCAGAGCTAGCTGA<br>GGTTTTATTTGGACCAAAAAAAAAAAGCAATTGAATTGTTTTGTACCTGGAGGCATGGG<br>CAAGGGGGGTCCCAGGTAGTAAACTCCCAGGTGGGCTGAGGGCTAAGGCTGAACCTCA<br>GGTGGGTCTCCTGTTCCAGTGTACCTGCATAGCGGCTCCTCCCAGGCTCTGGGGC<br>AACGCAAGAGGGGTAGGCTGGGAGGGGCTGCCCAACTGTTCACTTGGGCAGGACGTCAG<br>AGGACTCAGACACCAGCTTCCCATCACGTGTCTCGATCTTCTTTACAACCACGGCCCTGG<br>AGGAACCTGTGCGGCTGAAAGAGCTGGACCCCGCCAAAGCCAAAGCTGGACCCCAAGC<br>TGTACCTGAAGCCCGGGCTTTTGTAGGCCCCATAGGCCGAGCTTAGACCACCTGCTTAGC<br>CCGTGGGGGCATCCACTCTAAAACCTCTGCACCTGCCAACACACTACCAGCGAGCTCCTA<br>ACACCGACACACCTCCATTTAGGCCGCTTTTTTTCTTCCCGCCCCATTTCCCTTCCC<br>CCTCTCGTCCCCTCGTCTCCGCTTCTCCCCCTTACCATCTCCCCGCTCCCCTCACCCC<br>GTCTTCCCCCCCCCGCTTCCCCTCCTTTTTTTCCCCTTCTCTCTCATTACCACA<br>CTCGTTTTTCAATCAATCTCCGCGACCACATATGCCAACCTCATCTACACATTTCCC<br>TACCGCCCGTCCATGCCATCTCACCCCTCGTGGCTCCCCTCCTTCCCCCTTTCA<br>CATTATGCTTCTCCCGCTCGGCTCATTCTCCATTCTATCGCTTCTCCACCCCT<br>CTATCTTCTTTACCCTTGTTCCTCCCCTCTCTGTTTCCGTTTTCTGCCCTCCTC<br>CCATACCGCGCTCGGCTTTGCCGTCGCATATCCACTGTTTCCCTCCTCTCCCATAC<br>TCTTATACTCCCCCTCACCTCCTCT |
| <b>Restriction Sites:</b>           | NotI-NotI   |
| <b>ACCN:</b>                        | NM_002273   |
| <b>Insert Size:</b>                 | 1880 bp   |
| <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="#">NM_002273.2</a> , <a href="#">NP_002264.1</a>   |
| <b>RefSeq Size:</b>                 | 1788 bp   |
| <b>RefSeq ORF:</b>                  | 1452 bp   |
| <b>Locus ID:</b>                    | 3856  |
| <b>UniProt ID:</b>                  | <a href="#">P05787</a>  |
| <b>Cytogenetics:</b>                | 12q13.13  |
| <b>Domains:</b>                     | filament  |

**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]  
**Transcript Variant:** This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation in a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus, compared to isoform 1. Variants 2 and 3 encode the same isoform 2.