

## Product datasheet for **SC306812**

### **KRT78 (NM\_173352) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KRT78 (NM_173352) Human Untagged Clone
Tag:	Tag Free
Symbol:	KRT78
Synonyms:	CK-78; K5B; K78; Kb40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC306812 representing NM\_173352.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTCTCTCTCCCATGCCGGGCCAGAGGGGCTTCAGCGCTCGCTCAGCCTGTTCTGCTCGCTCAAGG
GGCCGACGACGAGGGAGGCTTCAGCAGCAGGGGCGGCTTCAGCAGCAGGAGCCTTAATTCCTTTGGGGGG
TGCTTGAAGGCTCTCGTGGGAGTACCTGGGGGTAGGGGGTAGGCTGGGGGTGCGGTTTGGGGAGTGG
AGTGGTGGGCTGGGCTCTCCCTGTGCCCTCCGGGGGCATCCAAGAAGTGACCATCAACCAGAATCTG
CTGACCCCACTGAAGATTGAGATCGATCCCCAGTTCCAGGTGGTGGGACGACGAGGAGACCCAGGAGATC
AGAACCCTCAACAACAGTTTGTCTTCTTATTGACAAGGTGCGGTTCTGGAGCAGCAGAACAAGGTC
CTGGAGACGAAGTGGCATCTGCTGCAGCAACAGGGGTTGAGTGGCAGCCAGCAGGCTGGAGCCTGTC
TTTGAGGCTGCTGGATCAGCTCAGGAAGCAGCTGGAGCAGCTCCAGGAGAACGAGGGGCTCTGGAT
GCTGAGTTGAAGGCTGCCGGGACAGGAGGAGGAGTATAAGTCCAAGTATGAGGAGGAGGCCACAGG
CGTGCCCACTTGAGAACGACTTTGTGGTCTCAAGAAGGATGTGGATGGGGTTTCTGAGCAAGATG
GAGTTGGAGGGCAAGCTGGAGGCTCTGAGAGAGTACCTCTACTTCTTGAAGCATCTGAATGAAGAAGAG
CTGGGCCAGCTCCAGACCCAGGCCAGCGACACGCTCTGTGGTGTCTGTCATGGACAACAACCGCTACCTG
GACTTCAGCAGCATCATCACTGAGGTCCGCGCCCGGTACGAGGAGATCGCCCGGAGCAGCAAGGCTGAG
GCTGAGGCCTTGTACCAGACCAAGTACCAGGAACCTCAGGTGTCTGCCAGCTTCATGGGACAGGATG
CAGGAAACGAAAGTCCAGATCTCTCAGCTACACCAAGAGATTAGAGGCTGCAGAGTCACTGAGAAC
CTCAAGAAGCAGAACGCCAGCCTGCAGGCCGCCATCACTGATGCTGAGCAGCGTGGGAGCTGGCCCTC
AAGGACGCTCAGGCCAAGGTGGACGAGCTGGAGGCTGCTCTGAGGATGGCCAAGCAGAACCTGGCCCGG
CTGCTGTGCGAGTACCAGGAGCTGACGAGCAGCAAGCTTTCCCTGGATGTGGAGATTGCCACTTACCGC
AGGCTGCTGGAGGCGAGGAGTGCAGGATGTCTGGGGAGTGACACGACGAGGTCACTATCTCCTCGGTG
GGAGGCAGCGCTGTATGTCTGGAGGAGTTGGTGGAGGCTGGGGAGCACTTGTGGAAGTCTGGTGTGGG
AAAGGCAGCCCTGGGCTCTGCTGCACGACATTGTGACTGGAGGCTCCAACATATTCTGGGCTCTGGG
AAGGACCTGTTTGGATTCTGCTGTGTCTGGCTCCAGCGCTGGCTCCAGCTGCCACACCATCTCTG
AAGAAGACAGTTGAGTCGAGTCTGAAGACATCCATCACCTACTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_173352  
**Insert Size:** 1563 bp  
**OTI Disclaimer:**

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_173352.3</a>
<b>RefSeq Size:</b>	2954 bp
<b>RefSeq ORF:</b>	1563 bp
<b>Locus ID:</b>	196374
<b>UniProt ID:</b>	<a href="#">Q8N1N4</a>
<b>Cytogenetics:</b>	12q13.13
<b>MW:</b>	56.9 kDa
<b>Gene Summary:</b>	<p>This gene is a member of the type II keratin gene family and encodes a protein with an intermediate filament domain. Keratins are the major structural proteins in epithelial cells, forming a cytoplasmic network of 10 to 12 nm wide intermediate filaments and creating a scaffold that gives cells the ability to withstand mechanical and non-mechanical stresses. The genes of the type II keratin family are located as a gene cluster at 12p13.13. Four pseudogenes of this gene family have been identified. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>