

## Product datasheet for **SC119817**

### Cytokeratin 14 (KRT14) (NM\_000526) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cytokeratin 14 (KRT14) (NM_000526) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytokeratin 14
Synonyms:	CK14; EBS3; EBS4; K14; NFJ
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC119817 sequence for NM\_000526 edited (data generated by NextGen Sequencing)

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ATGACTACCTGCAGCCGCCAGTTACCTCCTCCAGCTCCATGAAGGGCTCCTGCGGCATC
GGGGGCGGCATCGGGGGCGGCTCCAGCCGCATCTCTCCGTCCTGGCCGGAGGGTCTGC
CGCGCCCCAGCACCTACGGGGGCGGCTGTGTCTCATCTCCCGTTCTCTCTGGG
GGAGCCTATGGGTTGGGGGGCGGCTATGGCGGTGGCTTCAGCAGCAGCAGCAGCAGCTTT
GGTAGTGGCTTTGGGGGAGGATATGGTGGTGGCCTTGGTGTGGCTTGGTGGTGGCTTT
GGTGGTGGCTTTGCTGGTGGTGTATGGGCTTCTGGTGGCAGTGAGAAGGTGACCATGCAG
AACCTCAACGACCGCCTGGCCTCTACCTGGACAAGGTGCGTGCTCTGGAGGAGGCCAAC
GCCGACCTGGAAGTGAAGATCCGTGACTGGTACCAGAGGCAGCGCCTGCTGAGATCAAA
GACTACAGTCCCTACTTCAAGACCATTGAGGACCTGAGGAACAAGATTCTCACAGCCACA
GTGGACAATGCCAATGTCCTTCTGCAGATTGACAATGCCCGTCTGGCCGCGGATGACTTC
CGCACCAAGTATGAGACAGAGTTGAACCTGCGCATGAGTGTGGAAGCCGACATCAATGGC
CTGCGCAGGTGCTGGACGAAGTACCCTGGCCAGAGCTGACCTGGAGATGCAGATTGAG
AGCCTGAAGGAGGAGCTGGCCTACCTGAAGAAGAACCACGAGGAGGAGATGAATGCCCTG
AGAGGCCAGTGGTGGGATGTCAATGTGGAGATGGACGCTGCACCTGGCGTGGACCTG
AGCCGCATTCTGAACGAGATGCGTGACCAAGTATGAGAAGATGGCAGAGAAGAACCGAAG
GATGCCGAGGAATGGTTCTTACCAAGACAGAGGAGCTGAACCGCGAGGTGGCCACCAAC
AGCGAGCTGGTGCAGAGCGGCAAGAGCGAGATCTCGGAGCTCCGGCGCACCATGCAGAAC
CTGGAGATTGAGTGCAGTCCCAGCTCAGCATGAAAGCATCCCTGGAGAACAGCCTGGAG
GAGACCAAAGTGCCTACTGCATGCAGCTGGCCAGATCCAGGAGATGATTGGCAGCGTG
GAGGAGCAGCTGGCCAGCTCCGCTGCGAGATGGAGCAGCAGAACCAGGAGTACAAGATC
CTGCTGGACGTGAAGACGCGGCTGGAGCAGGAGATCGCCACCTACCGCCGCTGCTGGAG
GGCGAGGACGCCACCTCTCTCTCCAGTTCTCTCTGGATCGCAGTCAATCCAGAGAT
GTGACCTCTCCAGCCGCAAAATCCGCACCAAGGTGATGGATGTGCACGATGGCAAGGTG
GTGTCCACCCACGAGCAGGTCCTTCGCACCAAGAAGTGA
    
```

Clone variation with respect to NM\_000526.4  
 6 c=>t;189 c=>t;193 c=>t;369 t=>c

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_000526 unedited

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NNGGGTGCANAATATGTATACGACTCACTATAGGCGGCCCGCAATTCGCACCAGCTTCT
CTTCACTCAGCCAAGTGCCTCGCTCGCTCACCTCCCTCCTCTGCACCATGACTACCTGCAG
CCGCCAGTTCACCTCCTCCAGCTCCATGAAGGGCTCCTGCGGCATCGGGGGCGGCATCGG
GGGCGGCTCCAGCCGCATCTCTCCGTCCTGGCCGGAGGGTCTGCCCGCCCCCAGCAC
CTACGGGGGCGGCTGTCTGTCTCATCTCCCGTTCTCTCTGGGGGAGCCTATGGGTT
GGGGGGCGGCTATGGCGGTGGCTTCAGCAGCAGCAGCAGCAGCTTGGTAGTGGCTTTGG
GGGAGGATATGGTGGTGGCCTTGGTGTGGCTTGGGTGGTGGCTTTGGTGGTGGCTTTGC
TGGTGGTGGTGGCTTCTGGTGGCAGTGAGAAGGTGACCATGCAGAACCTCAACGACCG
CCTGGCCTCCTACCTGGACAAGGTGCGTGCTCTGGAGGAGGCCAACGCCGACCTGGAAGT
GAAGATCCGTGACTGGTACCAGAGGCAGCGCCTGCTGAGATCAAAGACTACAGTCCCTA
CTTCAAGACCATTGAGGACCTGAGGAACAAGATTCTCACAGCCACAGTGGACAATGCCAA
TGTCTTCTGCAGATTGACAATGCCGTCTGGCCGCGGATGACTCCGCACCAAGTATGA
GACAGAGTTGAACCTGCGCATGAGTGTGGAAGCCGACATCAATGGCCTGCCCAGGTGCT
GTACGAACTGACCCTGGCCAGAGCTGACCTGGAGATGCAGATTGAGAGCCTGAGGAGGAG
CTGGCCTACCTCGAGAAGACCACCGAGAGAGATGAATGCCCTGANAGCCCAGTGGGTGGA
GATGTCATGTGC
    
```

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_000526 unedited GGGCCTCCTGNACCCGGCCGCTTTCTANGATCGGTTTTTTTTTTTTTTTTATGCAACT CAGATAATGAAGCTGTATTGATTGCCAGGAGGGGTGAGGGTGAAGCAGGGTCCAGCTGT GAAGTGCTTGGGCAGGAGAGGGGATCTTCCAGTGGGATCTGTGTCCACACGGGGGCTC CTAGGCCCTGAGCGGGGCTGGGCAGCCTCAGTCTTGGTGCGAAGGACCTGCTCGTGGTG GACACCACCTTGCCATCGTGCACATCCATGACCTTGGTGCGGATTGGCGGCTGGAGGAG GTCACATCTGGATGACTGCTATCCACAGGATAACTGTGAGGATGAGAGGTGGCGCTCC TCTCCCTCCACATGCGGGGTGCGTGGCTATCTTCTGTCTCATCCTTGCCTTTCCTTCCA CCCGATCTTGTTCTCCTGATTGCTCCGCTCCCTCCTCCCTCGCCTTCTCGCCCTCGC CTCTCCCTCCTCCTCCACCTTCCCTCCCGCTCACACTCCCTGTCTGCCCCTTTC GCTCCTTATCCATTATCCTTCTGCGTTCTTCCCCCTATCCATCTCCTTACCACCTAC CCCTCCTCGCTCCTATCCTCCCTCCTCCTTCTTCTTTTTTACCCCTCCTTTCGT CCCCCTATCCCTTGCCATTGGACTCTGTTGCTTTTCCCTCCTTCCCTCTCCATTCTC TTTTCTCCTCTTCTCCTCCTTCTTTTCTCCCTATCTCCCCCTATCCCGTCTCT TCCCTCCTATCTTTCAGTTCACATCTCCGTCCTACCTTTTTATTACCCATCTCTTCT ACCGCCACCATTCTTTCTTTCTTCCACTCCTTCTAGGGTTGCGCTTCCACCCGC CTCCG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_000526
<b>Insert Size:</b>	1710 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>	<u>NM_000526.3, NP_000517.2</u>
<b>RefSeq Size:</b>	1634 bp
<b>RefSeq ORF:</b>	1419 bp
<b>Locus ID:</b>	3861
<b>UniProt ID:</b>	<u>P02533</u>
<b>Cytogenetics:</b>	17q21.2
<b>Domains:</b>	filament

**Gene Summary:**

This gene encodes a member of the keratin family, the most diverse group of intermediate filaments. This gene product, a type I keratin, is usually found as a heterotetramer with two keratin 5 molecules, a type II keratin. Together they form the cytoskeleton of epithelial cells. Mutations in the genes for these keratins are associated with epidermolysis bullosa simplex. At least one pseudogene has been identified at 17p12-p11. [provided by RefSeq, Jul 2008]