

## Product datasheet for **SC102891**

### Cytokeratin 4 (KRT4) (NM\_002272) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cytokeratin 4 (KRT4) (NM_002272) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytokeratin 4
Synonyms:	CK-4; CK4; CYK4; K4; WSN1
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 SC102891 sequence for NM\_002272 edited (data generated by NextGen Sequencing)

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ATGATTGCCAGACAGCAGTGTGTCCGAGGCGGGCCCCGGGGCTTCAGCTGTGGCTCGGCC
ATTGTAGNGGNNNNNNAGAGGTGCCTTCAGCTCAGTCTCCATGTCTGGAGGTGCTGGC
CGATGCTCTTCTGGGGATTTGGCAGCAGAAGCCTCTACAACCTCAGGGGAACAAAAGC
ATCTCCATGAGTGTGGCTGGGTACGACAAGGTGCCTTTGGGGGTGCTGGAGGCTTT
GGCACTGGTGGCTTTGGTGGTGGATTTGGGGCTCCTTCAGTGGTAAGGGTGGCCCTGGC
TTCCCCGTCTGCCCGCTGGGGGAATTCAGGAGTCAACATCAACCAGAGCTTGCTCACC
CCCCTCCACGTGGAGATTGACCTGAGATCCAGAAAGTCCGGACGGAAGAGCGGAACAG
ATCAAGCTCCTCAACAACAAGTTTGCCTCCTTCATCGACAAGGTGCAGTCTTAGAGCAA
CAGAATAAGGTCTGGAGACCAATGGAACCTGCTCCAGCAGCAGACACCACCCTCC
AGCAAAAACCTTGAGCCCTCTTTGAGACCTACCTCAGTGTCTGAGGAAGCAGCTAGAT
ACCTTGGGCAATGACAAAGGGCGCTGCAGTCTGAGCTGAAGACCATGCAGGACAGCGTG
GAGGACTTCAAGACTAAGTATGAAGAGGAGATCAACAAACGCACAGCAGCCGAGAATGAC
TTTGTGGTCTAAAGAAGGACGTGGATGCTGCCTACCTGAACAAGTGGAGTTGGAGGCC
AAGGTGGACAGTCTTAATGACGAGATCAACTTCCTGAAGTCTCTATGATGCGGAGCTG
TCCCAGATGCAGACCCATGTCAGCGACACGTCCGTGGTCTTTCCATGGACAACAACCGC
AACCTGGACCTGGACAGCATTATTGCCGAGGTCCGTGCCAGTACGAGGAGATTGCCAG
AGGAGCAAGGCTGAGGCTGAAGCCCTGTACCAGACCAAGTCCAGCAGCTCCAGATCTCG
GTTGACCAACATGGTGACAACCTGAAGAACACCAAGAGTAAAATTGCAGAGCTCAACAGG
ATGATCCAGAGGCTGCGGGCAGAGATCGAGAACATCAAGAAGCAGTGCAGACTCTTCAG
GTATCCGTGGCTGATGCAGAGCAGCGAGGTGAGAATGCCCTTAAAGATGCCACAGCAAG
CGCGTAGAGCTGGAGGCTGCCCTGCAGCAGGCCAAGGAGGAGCTGGCACGAATGCTGCGT
GAGTACCAGGAGCTCATGAGTGTGAAGTGGCCTTGGACATCGAGATCGCCACCTACCGC
AAACTGCTGGAGGGCGAGGAGTACAGAATGTCTGGAGAATGCCAGAGTCCCGTGAGCATC
TCTGTGGT CAGCGGTAGCACCAGCACTGGAGGCATCAGCGGAGGATTAGGAAGTGGCTCC
GGGTTTGGCCTGAGTAGTGGCTTTGGCTCCGGCTCTGGAAGTGGCTTTGGGTTTGGTGGC
AGTGTCTCTGGCAGTTCAGCAGCAAGATCATCTCTACCACCCTGAACAAGAGACGA
TAG
    
```

Clone variation with respect to NM\_002272.3  
 69 c=>n;72 t=>n;73 g=>n;74 g=>n;75 c=>n;76 a=>n;77 a=>n;78 g=>n

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_002272 unedited
GGTTGCGNATTTGTATACGATCCTATAGGCGGCCCGGATTCCGGCACCAGCACTTCTCTG
ATAGCTCCAGCTCGCTCTCTGCAGCCATGATTGCCAGACAGCAGTGTGTCCGAGGCGGG
CCCCGGGCTTCAGCTGTGGCTCGGCCATTGTAGGCGGTGGCAAGAGAGGTGCCTTCAGC
TCAGTCTCCATGTCTGGAGGTGCTGGCCGATGCTCTTCTGGGGATTTGGCAGCAGAAGC
CTCTACAACCTCAGGGGAACAAAAGCATCTCCATGAGTGTGGCTGGGTACGACAAGGT
GCCTGCTTTGGGGGTGCTGGAGGCTTTGGCACTGGTGGCTTTGGTGCCGGCGGCTTCGGA
GCTGGTTTCGGCACTGGTGGCTTTGGTGGTGGATTTGGGGCTCCTTCAGTGGTAAGGGT
GGCCCTGGCTTCCCCGTCTGCCCGCTGGGGGAATTCAGGAGTCAACATCAACCAGAGC
TTGCTCACCCCTCCACGTGGAGATTGACCCTGAGATCCAGAAAGTCCGGACGGAAGAG
CGGAACAGATCAACCTCCTCAACAACAAGTTTGCCTCCTTCATCGACAAGGTGCAGTTC
TTAGAGCAACAGAATAAGGTCTGGAGACCAATGGAACCTGCTCCACCAGCAGACGACC
ACCACCTCCAGCANAAACCTTGAGCCCTCTTTGAGACCTACCTCAGTGTCTGAGGAAG
CAGCTAGATACCTTGGGATTGACAAAGGGCGCCTGCAGTCTGAGCTGAAGACCATGCAN
GCCAGCGTGGAGGACTTCAAGACTAAGTATGGAGAGGAGATCAACAAACGCACAGCAGCC
CGAGAAGACTTTTGTGGTCTAAAGAAAGACGGGNATGCTGCCTCACTGGACANGTTGNA
GTTGTAGGCCAGGTGGACAGTCTTATGAG
    
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**Gene Summary:**

The protein encoded by this gene is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in differentiated layers of the mucosal and esophageal epithelia with family member KRT13. Mutations in these genes have been associated with White Sponge Nevus, characterized by oral, esophageal, and anal leukoplakia. The type II cytokeratins are clustered in a region of chromosome 12q12-q13. [provided by RefSeq, Jul 2008]