

Product datasheet for **SC116650**

Cytokeratin 7 (KRT7) (NM_005556) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytokeratin 7 (KRT7) (NM_005556) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytokeratin 7
Synonyms:	CK7; K2C7; K7; SCL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC116650 sequence for NM_005556 edited (data generated by NextGen Sequencing)

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ATGTCCATCCACTTCAGCTCCCCGGTATTCACCTCGCGCTCAGCCGCCTTCTCGGGCCGC
GGCGCCAGGTGCGCCTGAGCTCCGCTCGCCCCGGCGCCTTGGCAGCAGCAGCCTCTAC
GGCCTCGGCGCCTCGCGGCCGCGCTGGCCGTGCGCTCTGCCTATGGGGGCCGGTGGG
GCCGGCATCCGCGAGGTACCATTAACCAGAGCCTGCTGGCCCCGCTGCGGCTGGACGCC
GACCCTCCCTCCAGCGGTGCGCCAGGAGGAGAGCGAGCAGATCAAGACCCTCAACAAC
AAGTTTGCCTCCTTCATCGACAAGGTGCGGTTTCTGGAGCAGCAACAAGCTGCTGGAG
ACCAAGTGGACGCTGCTGCAAGGAGCAGAAGTCGGCCAAGAGCAGCCGCCTCCAGACATC
TTTGAGGCCAGATTGCTGGCCTTCGGGGTCACTTGGAGCAGTGCAGGTGGATGGGGGC
CGCCTGGAGGCGGAGCTGCGGAGCATGCAGGATGTGGTGGAGGACTTCAAGAATAAGTAC
GAAGATGAAATTAACCGCCGCACAGCTGCTGAGAATGAGTTTGTGGTGCAGGAAGGAT
GTGGATGCTGCCTACATGAGCAAGGTGGAGCTGGAGGCCAAGGTGGATGCCCTGAATGAT
GAGATCAACTTCTCAGGACCCTCAATGAGACGGAGTTGACAGAGCTGCAGTCCCAGATC
TCCGACACATCTGTGGTGTCCATGGACAACAGTCGCTCCCTGGACCTGGACGGCATC
ATCGCTGAGGTCAAGGCACAGTATGAGGAGATGGCCAAATGCAGCCGGGCTGAGGCTGAA
GCCTGGTACCAGACCAAGTTTGGAGCCCTCCAGGCCAGGCTGGGAAGCATGGGGACGAC
CTCCGGAATACCCGGAATGAGATTTAGAGATGAACCGGGCCATCCAGAGGCTGCAGGCT
GAGATCGACAACATCAAGAACCAGCGTGCCAAGTTGGAGGCCGCCATTGCCGAGGCTGAG
GAGCGTGGGGAGCTGGCGCTCAAGGATGCTCGTCCAAGCAGGAGGAGCTGGAAGCCGCC
CTGCAGCGGCCAAGCAGGATATGGCACGGCAGCTGCGTGAGTACCAGGAACTCATGAGC
GTGAAGCTGGCCCTGGACATCGAGATCGCCACCTACCCAAGCTGCTGGAGGGCGAGGAG
AGCCGGTTGGCTGGAGATGGAGTGGGAGCCGTAATATCTCTGTGATGAATTCACATGGT
GGCAGTAGCAGTGGCGGTGGCATTGGGCTGACCCTCGGGGGAACCATGGGAGCAATGCC
CTGAGCTTCTCCAGCAGTGGGGTCTGGGCTCCTGAAGGCTTATTCCATCCGGACCGCA
TCCGCCAGTCGCAGGAGTCCCCGCGACTGA
    
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Clone variation with respect to NM_005556.3
 135 a>g;557 a>g;798 g=>a;1091 g=>c

5' Read Nucleotide Sequence: >OriGene 5' read for NM_005556 unedited

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ATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCGCTCCTCCTCGCCCCCGG
CTAGGTCCATCCCGGCCAGCCACCATGTCCATCCACTTCAGCTCCCCGGTATTCACCTC
GCGCTCAGCCGCCTTCTCGGGCCGCGGCCAGGTGCGCCTGAGCTCCGCTCGCCCCGG
CGGCCTTGGCAGCAGCAGCCTCTACGGCCTCGGCGCCTCGCGGCCGCGCTGGCCGTGCG
CTCTGCCTATGGGGCCCGGTGGGCGCCGGCATCCGCGAGGTACCATTAACCAGAGCCT
GCTGGCCCCGCTGCGGCTGGACGCGGACCCCTCCCTCCAGCGGGTGCACCAGGAGAGAG
CGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCATCGACAAGGTGCGGTTTCT
GGAGCAGCAGAACAAGCTGCTGGAGACCAAGTGGACGCTGCTGCAAGGAGCAGAAGTCGGC
CAAGAGCAGCCGCTCCAGACATCTTTGAGGCCAGATTGCTGGCCTTCGGNGTCAGCT
TGAGGCACTGCAGGTGGATGGGGCCGCTGGAGGCGGAGCTGCGGAGCATGCANGATGT
GGTGGAGGACTTCAAGAAATAGTACGAAGATGAAATTAACCGCCGCACAGCTGCTGAGAA
TGAGTTTGTGGTGTGAAGAAAGGATGTGATGCTGCCTACATGAGCANGGTGGAGCTGG
GAGCCANGGTGGATGCCCTGATGATGANGATCACTTNTCAGGACCCTCATGANACAGGA
GTGACAGAGCTGCAGTCCAGATCTCCACCATNNTGGGGGGGGCTGTCCATGGGACACA
GTCGCTCCCTTGACACTGNACGCATCATNNTGAGGTGAGGCACAGATGTGGGAGAATG
GCCAATGCANCCGGGCTGAGGCTGAGCCTGGACCCAAACAAGTTTGGAGCCTCAGNCCAG
CTGG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005556 unedited GCGCCCTTCTATAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTCTACTCAGGCCTCAAATGAGGCTGCTTATTGGAAGCTATTCTGACATCACTTTCCAACTGTCTCACTGTCTTGGGAC CAGGCATGGGAGGCAGGGGTGGGAATCTTCTTGATTGTGGGTGGTGGCTGGAGGATTG GATTGGTGGGAGGCGGCTCATTCGCGGGCACTCCTGCGACTGGCGGATGCGGTCCGGATG GAATAATCCTTCAGGAGCCAGGACCCGCACTGCTGGAGAAGCTCAGGGCATTGCTGCC ATGGTCCCGGAGGGTCAGCCATTGCCACCGCCACTGCTACTGCCACCAGTGGAATTC ATCACAGATATATTCACGGCTCCCACTCCATCTCCAGCCAACCGGCTCTCCTCGCCCTCC ATAAGTTTGCGGTAGGTGGCGATCTCAATGTCCAGGCCAGCTTACGCTCATGAGTTCC TGGAACTCACGCAGCTGCCGTGCCTTATCCTGCTTGGCCCGCTGCAGGGCGGCTCCATC CTCTCCTGCTTGGCCGATCATCCTTGACCGCCACCTCCACCCCTCCTTATCTTAGACT ATGGCGGCTCCAACCTGGCCGTTGGTCTTGATGTTGGCCATCCACCCCTGAGACCTC TGGATGGCCCTTTATTCTCTGAAATCCCTTCTCGGGTATTCGGAGGGTCTCCCT TTTCTCCCGAGCTGGGCGGGAAGGTTCTAAATTTGGTCTGGTACACATGTTAA CCCTAACCCCGTTGATTTTGACCTCTCCTCTTCTGGGCCCTCGACCTTACGTTGAT GCCCCCCATCTCCAGCGGCCCTCTTTTCTCTGGTCACTCCTCATATTTGCCAGTAT TCCGACACTGCACTCCTCCCTCTCGTCTTCTGGGTCTCTTGGATTTCTTCTTTTAC GGGTCTCCCTTCGGCCCACTCTCCCTTGTGTTGTGCGCTATCCCCCTCTCCTCACACC ACTTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_005556
Insert Size:	1430 bp
OTI Disclaimer:	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).
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	NM_005556.3 , NP_005547.3
RefSeq Size:	1753 bp
RefSeq ORF:	1410 bp
Locus ID:	3855
UniProt ID:	P08729
Cytogenetics:	12q13.13
Domains:	filament

Protein Families: ES Cell Differentiation/IPS

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 the simple epithelia lining the cavities of the internal organs and in the gland ducts and blood vessels. The genes encoding the type II cytokeratins are clustered in a region of chromosome 12q12-q13. Alternative splicing may result in several transcript variants; however, not all variants have been fully described. [provided by RefSeq, Jul 2008]