

Product datasheet for **SC122561**

Cytokeratin 10 (KRT10) (NM_000421) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytokeratin 10 (KRT10) (NM_000421) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytokeratin 10
Synonyms:	BCIE; BIE; CK10; EHK; K10; KPP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_000421 edited
CAGCATCACCATGTCTGTTCGATACAGCTCAAGCAAGCACTACTCTTCTCCCGCAGTGG
AGGAGGAGGAGGAGGAGGAGGATGTGGAGGAGGAGGAGGAGTGTCCATCCCTAAGAATTC
TAGCAGCAAAGGCTCCCTTGGTGGAGGATTTAGCTCAGGGGGTTCAGTGGTGGCTCTTT
TAGCCGTGGGAGCTCTGGTGGGGCTGCTTTGGGGCTCATCAGGTGGCTATGGAGGATT
AGGAGGTTTTGGTGGAGGTAGCTTTCGTGGAAGCTATGGAAGTAGCAGCTTTGGTGGGAG
TTATGGAGGCAGCTTTGGAGGGGCAGTTTCGGAGGTGGCAGCTTTGGTGGGGCAGCTT
TGGTGGAGGCGGCTTTGGTGGAGGCGGCTTTGGAGGAGGCTTTGGTGGTGGATTTGGAGG
AGATGGTGGCCTTCTCTCTGAAATGAAAAAGTAACCATGCAGAATCTGAATGACCGCT
GGCTTCTACTTGGACAAAGTTCGGGCTCTGGAAGAATCAAATATGAGCTGGAAGGCAA
AATCAAGGAGTGGTATGAAAAGCATGGCAACTCACATCAGGGGGAGCCTCGTGACTACAG
CAAATACTACAAAACCATCGATGACCTTAAAAATCAGATTCTCAACCTAACAACTGATAA
TGCCAACATCCTGCTCAGATCGACAATGCCAGGCTGGCAGCTGATGACTTCAGGCTGAA
GTATGAGAATGAGGTAGCTCTGCGCCAGAGCGTGGAGGCTGACATCAACGGCCTGCGTAG
GGTGTGGATGAGCTGACCTGACCAAGGCTGACCTGGAGATGCAAATTGAGAGCCTGAC
TGAAGAGCTGGCCTATCTGAAGAAGAACCACGAGGAGGAAATGAAAGACCTTCGAAATGT
GTCCACTGGTGTGTGAATGTGGAATGAATGCTGCCCGGGTGTGATCTGACTCAACT
TCTGAATAACATGAGAAGCCAATATGAACAACCTTGTGAACAAAACCGCAAAGATGCTGA
AGCCTGGTTCAATGAAAAGAGCAAGGAACTGACTACAGAAATTGATAATAACATTGAACA
GATATCCAGCTATAAATCTGAGATTACTGAATTGAGACGTAATGTACAAGCTCTGGAGAT
AGAACTACAGTCCCAACTGGCCTTGAACAATCCCTGGAAGCCTCCTTGGCAGAAACAGA
AGGTCGCTACTGTGTGCAGCTCTCACAGATTCAGGCCAGATATCCGCTCTGGAAGAACA
GTTGCAACAGATTGAGCTGAAACCGAGTCCAGAACTGAATACCAACAACCTCTGGA
TATTAAGATCCGACTGGAGAATGAAATTCAAACCTACCGCAGCCTGCTAGAAGGAGAGGG
AAGTTCGGAGGCGGCGGACGCGCGGCGGAAGTTTCGGCGGCGGCTACGGCGGCGGAAG
CTCCGGCGGCGGAAGCTCCGGCGGCGGCTACGGCGGCGGCCACGGCGGCAGTTCCGGCGG
CGGCTACGGAGGCGGAAGCTCCGGCGGCGGAAGCTCCGGCGGCGGCTACGGGGCGGAAG
CTCCAGCGGCGGCCACGGCGGCAGTTCAGCGGCGGCTACGGTGGTGGCAGTTCCGGCGG
CGGCGGCGGCGGCTACGGGGCGGCGAGCTCCGGCGGCGGCGAGCTCCGGCGGCGGATA
CGGCGGCGGCGAGCTCCAGCGGAGGCCACAAGTCTCTCTTCCGGTCCGTGGGCGAGTC
TTCATCTAAGGGACCAAGATACTAACAAAACAGAGTAATCAAGACAATTATTGAAGAGG
TGGCGCCCGACGCTAGAGTTCTTTCATCTATGGTTGAATCAGAAACCAAGAAACTACT
ATTAACCTGCATCAAGAGGAGAGAGTCTCCCTTACACAGACCATTATTTACAGATGCAT
GGAAAAACAAAGTCTCAAGAAAAACACTTCTGTCTTGATGGTCTATGGAATAGACCTTGA
AAATAAGGTGTCTACAAGGTGTTTTGTGGTTTCTGTATTTCTTCTTTCACTTTACCAGA
AAGTGTCTTTAATGAAAGAAAAACAACCTTCTGTTCTCATTACTAATGAATTTCAAT
AACTTTCTTACTGATGCAAACTAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000421 unedited NGGGATTGGGNNGAAAACCACTCTTAGGGCGGCCGCGATTCCCAGGATCAGCATCAC CATGTCTGTTTCGATACAGCTCAAGCAAGCACTACTCTTCTCCCAGTGGAGGAGGAGG AGGAGGAGGAGGATGTGGAGGAGGAGGAGGAGTGTATCCCTAAGAATTTCTAGCAGCAA AGGCTCCCTTGGTGGAGGATTTAGCTCAGGGGGTTTCAGTGGTGGCTCTTTAGCCGTGG GAGCTCTGGTGGGGCTGCTTTGGGGCTCATCAGGTGGCTATGGAGGATTAGGAGGTTT TGGTGGAGGTAGCTTTCTGGAAGCTATGGAAGTACAGCTTTGGTGGGAGTTATGGAGG CAGCTTTGGAGGGGCGAGTTTCGAGGTGGCAGCTTTGGTGGGGCAGCTTTGGTGGAGG CGGCTTTGGTGGAGGCGCTTTGGAGGAGGCTTTGGTGGTGGATTGGAGGAGATGGTGG CCTTCTCTGGAAATGAAAAAGTAACCATGCAGAATCTGAATGACCGCCTGGCTTCTTA CTTGGACAAAGTTCGGGCTCTGGAAGAATCAAATATGAGCTGGAAGGCAAAATCAAGGA GTGGTATGAAAAGCATGGCAACTCACATCAGGGGGAGCCTCGTGACTACAGCAAATACTA CAAAACCATCGATGACCTTAAAAATCAGATTCTCAACCTAACAAGTATAATGCCAACAT CCTGCTTCAGATGACAATGCCAGGCTGGCAGCTGATGACTTCAGGCTGAAGTATGAGAA TGAGGTAGCTCTGCGCCAGAGCGTGGAGGCTGACATCAACGGCCTGCGTANGGTGCTGGA TGAGCTGACCCCTGACCAAGCTGACCTGNAGATGCANATTGAGAGCCTGACTGNNAGAGC TGCCCTATCTGAGAAGAACCACGAGA
Restriction Sites:	Please inquire
ACCN:	NM_000421
Insert Size:	2145 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_000421.2 , NP_000412.2
RefSeq Size:	2145 bp
RefSeq ORF:	1755 bp
Locus ID:	3858
UniProt ID:	P13645
Cytogenetics:	17q21.2

Gene Summary:

This gene encodes a member of the type I (acidic) cytokeratin family, which belongs to the superfamily of intermediate filament (IF) proteins. Keratins are heteropolymeric structural proteins which form the intermediate filament. These filaments, along with actin microfilaments and microtubules, compose the cytoskeleton of epithelial cells. Mutations in this gene are associated with epidermolytic hyperkeratosis. This gene is located within a cluster of keratin family members on chromosome 17q21. [provided by RefSeq, Jul 2008]