

Product datasheet for **SC319550**

Cytokeratin 5 (KRT5) (NM_000424) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytokeratin 5 (KRT5) (NM_000424) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytokeratin 5
Synonyms:	CK5; DDD; DDD1; EBS2; K5; KRT5A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_000424.3
 CTTCTGCGTCTGCTGAGCTCTGTTCTCTCCAGCACCTCCAACCCACTAGTGCCTGGTT
 CTCTTGCTCCACCAGGAACAAGCCACCATGTCTCGCCAGTCAAGTGTGCCTTCCGGAGC
 GGGGGCAGTCGTAGCTTCAGCACCGCTCTGCCATCACCCGCTGTCTCCCGCACCAGC
 TTCACCTCCGTGTCCCGTCCGGGGTGGCGGTGGTGGTGGCTTCGGCAGGGTCAGCCTT
 GCGGGTGTCTGGAGTGGTGGCTATGGCAGCCGGAGCCTCTACAACCTGGGGGGTCC
 AAGAGGATATCCATCAGCACTAGTGGTGGCAGCTTCAGGAACCGTTTGGTGTGGTGTCT
 GGAGGCGGCTATGGCTTTGGAGGTGGTGGCGGTAGTGGATTTGGTTTCGGCGGTGGAGCT
 GGTGGTGGCTTTGGGCTTGGTGGCGGAGCTGGCTTTGGAGGTGGCTTCGGTGGCCCTGGC
 TTTCTGTCTGCCCTCTGGAGGTATCCAAGAGGTCACTGTCAACCAGAGTCTCCTGACT
 CCCCTCAACCTGCAAAATCGACCCAGCATCCAGAGGGTGAAGACCGAGGAGCGCGAGCAG
 ATCAAGACCTCAACAATAAGTTTGCCTCCTTCATCGACAAGGTGCGGTTCTGGAGCAG
 CAGAACAAGGTTCTGGACACCAAGTGGACCCTGCTGCAGGAGCAGGGACCAAGACCGTG
 AGGCAGAACCTGGAGCCGTTGTTTCGAGCAGTACATCAACAACCTCAGGAGGCAGTGGAC
 AGCATCGTGGGGAACGGGGCCGCTGGACTCAGAGCTAAGAAACATGCAGGACCTGGTG
 GAAGACTTCAAGAACAAGTATGAGGATGAAATCAACAAGCGTACCACTGCTGAGAATGAG
 TTTGTGATGCTGAAGAAGGATGTAGATGCTGCCTACATGAACAAGGTGGAGCTGGAGGCC
 AAGGTTGATGCACTGATGGATGAGATTAACCTTCATGAAGATGTTCTTTGATGCGGAGCTG
 TCCCAGATGCAGACGCATGTCTCTGACACCTCAGTGGTCTCTCCATGGACAACAACCGC
 AACCTGGACCTGGATAGCATCATCGCTGAGGTCAAGGCCAGTATGAGGAGATTGCCAAC
 CGCAGCCGGACCGAAGCCGAGTCTGGTATCAGACCAAGTATGAGGAGCTGCAGCAGACA
 GCTGGCCGGCATGGCGATGACCTCCGCAACCAAGCATGAGATCTCTGAGATGAACCGG
 ATGATCCAGAGGCTGAGAGCCGAGATTGACAATGTCAAGAAACAGTGCGCCAATCTGCAG
 AAGCCATTGCGGATGCCGAGCAGCGTGGGGAGCTGGCCCTCAAGGATGCCAGGAACAAG
 CTGGCCGAGCTGGAGGAGGCCCTGCAGAAGGCCAAGCAGGACATGGCCCGGCTGCTGCGT
 GAGTACCAGGAGCTCATGAACACCAAGCTGGCCCTGGACGTGGAGATCGCCACTTACCGC
 AAGCTGCTGGAGGGCGAGGAATGCAGACTCAGTGGAGAAGGAGTTGGACCAGTCAACATC
 TCTGTTGTACAAGCAGTGTTCCTCTGGATATGGCAGTGGCAGTGGCTATGGCGGTGGC
 CTCGGTGGAGGCTTGGCGGGCCCTCGGTGGAGGTCTTGCCGGAGGTGGCAGTGGAAAGC
 TACTACTCAGCAGCAGTGGGGTGTGGCCTAAGTGGTGGGCTCAGTGTGGGGGCTCT
 GGCTTCAGTGCAAGCAGTGGCCGAGGGTGGGGGTGGGCTTTGGCAGTGGCGGGGTAGC
 AGCTCCAGCGTCAAATTTGTCTCCACCCTCCTCCTCCCGAAGAGCTTCAAGAGCTAA
 GAACCTGCTGCAAGTCACTGCCTTCCAAGTGCAGCAACCCAGCCCATGGAGATTGCCTCT
 TCTAGGCAGTTGCTCAAGCCATGTTTTATCCTTTTCTGGAGAGTAGTCTAGACCAAGCCA
 ATTGCAGAACCACATTCTTTGGTCCCAGGAGAGCCCCATTCCCAGCCCCGTTCTCCCG
 TGCCGAGTTCTATATTCTGCTTCAAATCAGCCTTCAGGTTTCCCACAGCATGGCCCTG
 CTGACACGAGAATCCAAAGTTTTCCAAATCTAAATCATCAAAACAGAATCCCCACCCCA
 ATCCCAAATTTTGGTTTCTAACTACCTCCAGAATGTGTTCAATAAAATGCTTTTAT
 AATATAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_000424
- 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).
- OTI Annotation:** 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.

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:	<u>NM_000424.3</u> , <u>NP_000415.2</u>
RefSeq Size:	2320 bp
RefSeq ORF:	1773 bp
Locus ID:	3852
UniProt ID:	<u>P13647</u>
Cytogenetics:	12q13.13
Domains:	filament
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 basal layer of the epidermis with family member KRT14. Mutations in these genes have been associated with a complex of diseases termed epidermolysis bullosa simplex. The type II cytokeratins are clustered in a region of chromosome 12q12-q13. [provided by RefSeq, Jul 2008]