

Product datasheet for **SC303735**

Cytokeratin 1 (KRT1) (NM_006121) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytokeratin 1 (KRT1) (NM_006121) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytokeratin 1
Synonyms:	CK1; EHK; EHK1; EPPK; K1; KRT1A; NEPPK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006121 unedited CATGGNGTGGCACTTCCAGGNCCAGNANAGCACTGGGGNAGGGTCACAGGGATGCCACCC GGGATCTGTTCAGGAAACAGCTATGACCGCGGCCCAATCTAGAGCGGCCGCCCTTTTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAATTTCAAATGCAGTTTATTGCAGCAA ACAAGGAAATGGGGAGTTAAGACCTCTCCACAAAAAACAACCTTGCTTACACCTTA TGTACAAAACAAAACAGCACAGAGATAAGATGCTAAGGAGCTGTCCACACCCTGGGTCT AACTGGTCCTACTCTGGCTGGCTTAAGGAGGTGCTTTGAAATGTCATGTGGGTGGTGGTC ACTGCTGAACTGTTTCTCAGGGAAGAACAAGCAGGGTCATAGCCAGGGGACTGAGATT GCCACTGATCTGAAACTTCATTGGGAAACAGCAGAAAAGAAAGACTGGGGGAATAGGA TGAGCTAGTGTAACCAACATAGCTCTTTTCTCCGGTAAGGCTGGGACAAATCGACCTCG GTCTTGCCAAGCATATTATTTAGTGATGCTGGGGGAGAACTAGAGCTAATGAAACAGAGG GCATCTCTTTACTGTTACTCCGGAATAAGTGGTAGAAAACAACCTCACGCTGGAAGT CCACCAGAGGACTTGACACCCCAAGAGCTGGATCCCCCGCCTCTATGGAGCCTCCAGAG CTCCCGCCGCCAGAGCCCGCCGCCAAAACCTGCCCGCCCGCCCGCCTCAAAGCCACC TTTGTAGCCCCCATTGCTTGCTTCCGGAGCCCTAACTGTCATGGCCGCGCCGCCCCCTT TCAGAACCCTAACTTGCCCTTCCGGGAGCCGTAC</p>
Restriction Sites:	Please inquire
ACCN:	NM_006121
Insert Size:	2500 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_006121.2 , NP_006112.2

RefSeq Size: 2507 bp

RefSeq ORF: 1935 bp

Locus ID: 3848

UniProt ID: [P04264](#)

Cytogenetics: 12q13.13

Protein Families: Druggable Genome

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 spinous and granular layers of the epidermis with family member KRT10 and mutations in these genes have been associated with bullous congenital ichthyosiform erythroderma. The type II cytokeratins are clustered in a region of chromosome 12q12-q13. [provided by RefSeq, Jul 2008]