

## Product datasheet for **SC319637**

### **KRT6A (NM\_005554) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KRT6A (NM_005554) Human Untagged Clone
Tag:	Tag Free
Symbol:	KRT6A
Synonyms:	CK-6C; CK-6E; CK6A; CK6C; CK6D; K6A; K6C; K6D; KRT6C; KRT6D; PC3
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\_005554.3  
 CTCTCCTCCAGCCTCTCACACTCTCCTCAGCTCTCTCATCTCCTGGAACCATGGCCAGCA  
 CATCCACCACCATCAGGAGCCACAGCAGCAGCCGCGGGGTTTCAGTGCCAGCTCAGCCA  
 GGCTCCCTGGGGTCAGCCGCTCTGGCTTCAGCAGCGTCTCCGTGTCCCGCTCCAGGGCA  
 GTGGTGGCCTGGGTGGTGCATGTGGAGGAGCTGGCTTTGGCAGCCGAGTCTGTATGGCC  
 TGGGGGGCTCCAAGAGGATCTCCATTGGAGGGGGCAGCTGTGCCATCAGTGGCGGCTATG  
 GCAGCAGAGCCGGAGGCAGCTATGGCTTTGGTGGCGCCGGGAGTGGATTTGGTTTTCGGTG  
 GTGGAGCCGGCATTGGCTTTGGTCTGGGTGGTGGAGCCGGCCTTGCTGGTGGCTTTGGGG  
 GCCCTGGCTTCCCTGTGTGCCCCCTGGAGGCATCCAAGAGGTACCCGTCAACCAGAGTC  
 TCCTGACTCCCCTCAACCTGCAAATCGATCCCACCATCCAGCGGGTGGGGCCGAGGAGC  
 GTGAACAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCATCGACAAGGTGCGGTTCC  
 TGGAGCAGCAGAACAAAGTTCTGGAACAAGTGGACCCTGCTGCAGGAGCAGGGCACCA  
 AGACTGTGAGGCAGAACCTGGAGCCGTTGTTTCGAGCAGTACATCAACAACCTCAGGAGGC  
 AGCTGGACAGCATTGTGGGGAACGGGGCCGCTGGACTCAGAGCTCAGAGGCATGCAGG  
 ACCTGGTGGAGGACTTCAAGAACAATATGAGGATGAAATCAACAAGCGCACAGCAGCAG  
 AGAATGAATTTGTGACTCTGAAGAAGGACGTGGATGCTGCCTACATGAACAAGGTTGAAC  
 TGCAAGCCAAGGCAGACTCTCACAGACGAGATCAACTTCTGAGAGCCTTGTATGATG  
 CAGAGCTGTCCCAGATGCAGACCACATCTCAGACACATCTGTGGTGTGTCCATGGACA  
 ACAACCGCAACCTGGACCTGGACAGCATCATCGCTGAGGTCAAGGCCAAATATGAGGAGA  
 TTGCTCAGAGAAGCCGGGCTGAGGCTGAGTCTGGTACCAGACCAAGTACGAGGAGCTGC  
 AGGTACACAGCAGGCAGACATGGGACGACCTGCGCAACACCAAGCAGGAGATTGCTGAGA  
 TCAACCGCATGATCCAGAGGCTGAGATCTGAGATCGACCACGTCAAGAAGCAGTGGCCCA  
 ACCTGCAGGCCGCCATTGCTGATGCTGAGCAGCGTGGGAGATGGCCCTCAAGGATGCCA  
 AGAACAAAGCTGGAAGGGCTGGAGGATGCCCTGCAGAAGGCCAAGCAGGACCTGGCCCGGC  
 TGCTGAAGGAGTACCAGGAGCTGATGAATGTCAAGCTGGCCCTGGACGTGGAGATCGCCA  
 CCTACCGCAAGCTGCTGGAGGGTGGAGGAGTGCAGGCTGAATGGCGAAGGCGTTGGACAAG  
 TCAACATCTGTGGTGCAGTCCACCGTCTCCAGTGGCTATGGCGGTGCCAGTGGTGTGCG  
 GCAGTGGCTTAGGCCTGGGTGGAGGAAGCAGCTACTCCTATGGCAGTGGTCTTGGCGTTG  
 GAGGTGGCTTTCAGTTCAGCAGTGGCAGAGCCATTGGGGTGGCCTCAGCTCTGTGGAG  
 GCGGCAGTTCACCATCAAGTACACCACCCTCCTCCTCCAGCAGGAAGAGCTATAAGC  
 ACTAAAGTGGTCTGCTAGCTCTCGGTCCACAGTCTCAGGCCCTCTCTGGCTGCAGA  
 GCCTCTCCTCAGGTTGCCTGTCTCTCCTGGCCTCCAGTCTCCCTGCTGTCCCAGGTA  
 GAGCTGGGGATGAATGCTTAGTGCTTCACTTCTCTCTCTCTCTATACCATCTGAGC  
 ACCCATGCTCACCATCAGATCAACCTCTGATTTTACATCATGATGAATCACCCTGGA  
 GCTTCACTTTGTTACTAAATTATTAATTTCTTGCCTCCAGTGTCTATCTCTGAGGCTGA  
 GCATTATAAGAAAATGACCTCTGCTCCTTTTCATTGCAGAAAATTGCCAGGGGCTATTT  
 CAGAACAACCTTCACTTACTTTCCACTGGCTCTCAAACCTCTAACTTATAAGTGTGTG  
 AACCCCAACCCAGGCAGTATCCATGAAAGCACAAGTACTAGTCCATGATGTACAAAGC  
 CTGTATCTCTGTGATGATTTCTGTGCTCTTCGCTCTTTGCAATTGCTAAATAAAGCAGAT  
 TTATAATACAATAAA  
 AAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_005554

**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).

<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005554.3</a> , <a href="#">NP_005545.1</a>
<b>RefSeq Size:</b>	2450 bp
<b>RefSeq ORF:</b>	1695 bp
<b>Locus ID:</b>	3853
<b>UniProt ID:</b>	<a href="#">P02538</a>
<b>Cytogenetics:</b>	12q13.13
<b>Domains:</b>	filament
<b>Gene Summary:</b>	<p>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. As many as six of this type II cytokeratin (KRT6) have been identified; the multiplicity of the genes is attributed to successive gene duplication events. The genes are expressed with family members KRT16 and/or KRT17 in the filiform papillae of the tongue, the stratified epithelial lining of oral mucosa and esophagus, the outer root sheath of hair follicles, and the glandular epithelia. This KRT6 gene in particular encodes the most abundant isoform. Mutations in these genes have been associated with pachyonychia congenita. In addition, peptides from the C-terminal region of the protein have antimicrobial activity against bacterial pathogens. The type II cytokeratins are clustered in a region of chromosome 12q12-q13. [provided by RefSeq, Oct 2014]</p>