

# Recombinant Full Length Human KRT6A Protein, GST-tagged

Cat. No. KRT6A-738HF    Lot. No. (See product label)

## SPECIFICATION

**Product Overview**      Recombinant full-length Human KRT6A full-length ORF ( AAH08807.1, 1 a.a. - 564 a.a.) protein was expressed in wheat Germ with GST-tag at N-terminal.

**Species**                      Human

**Source**                        In Vitro Cell Free System

**ProteinLength**              564 amino acids

**Description**

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.

**Form**                            50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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**Molecular Mass** 87.78 kDa

**AA Sequence**

MASTSTTIRS HSSRRGFSA NSARLPGVSR SGFSSVSVSR SRGSGGLGGA  
 CGGAGFGSRS LYGLGGSKRI SIGGGSCAIS GGYGSRAGGS YGFGGAGSGF  
 GFGGGAGIGF GLGGGAGLAG GFGGPGFPVC PPGGIQEVTV NQSLLTPLNL  
 QIDPTIQRVR AEEREQIKTL NNKFASFIDK VRFLEQQNKV LETKWTLQEQ  
 QGKTQVRQNL EPLFEQYINN LRRQLDSIVG ERGRLDSELR GMQDLVEDFK  
 NKYEDEINKR TAAENEFVTL KKDVDAAVMN KVELQAKADT LTDEINFLRA  
 LYDAELSQQM THISDTSVVL SMDNNRNL DLDSIIAEVKAQ YEEIAQRSRA  
 EAESWYQTKY EELQVTAGRH GDDLRLNTKQE IAEINRMIQR LRSEIDHVKK  
 QCANLQAAIA DAEQRGEMAL KDAKNKLEGL EDALQKAKQD LARLLKEYQE  
 LMNVKLALDV EIATYRKLE GEECRLNGEG VGQVNISVVQ STVSSGYGGA  
 SGVGSGLGLG GGSSYSYSGS LGVGGGFSSS SGRAIGGGLS SVGGGSSTIK  
 YTTTSSSSRK SYKH

**Storage** Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

**Gene Name** [KRT6A keratin 6A \[ Homo sapiens \]](#)

**Official Symbol** [KRT6A](#)

**Synonyms** CK-6C; CK-6E; CK6A; CK6C; CK6D; K6A; K6C; K6D; KRT6C; KRT6D; PC3

**Gene ID** [3853](#)

**mRNA Refseq** [NM\\_005554.3](#)

**Protein Refseq** [NP\\_005545](#)

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<b>MIM</b>	148041
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<b>UniProt ID</b>	P02538
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