

Product datasheet for **SC316454**

Trichohyalin (TCHH) (NM_007113) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trichohyalin (TCHH) (NM_007113) Human Untagged Clone
Tag:	Tag Free
Symbol:	Trichohyalin
Synonyms:	THH; THL; TRHY; UHS3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_007113 edited
 ATGTCTCCACTTCTGAGAAGCATCTGTGACATCACTGAAATTTTCAATCAGTATGTCTCT
 CATGATTGTGATGGAGCAGCATTAACTAAGAAAGACCTGAAGAACCTCCTTGAAAGGGAA
 TTTGGAGCTGTGCTTCGGAGACCACATGACCCTAAGACGGTAGATCTGATCCTGGAACCT
 CTGGATCGTGACAGTAATGGGCGTGTGCGATTTCAACGAATTCCTCCTATTTATTTCAA
 GTGGCTCAAGCTTGTTACTATGCTCTCGGCCAGGCCACGGGACTGGATGAGGAGAAGCGA
 GCCCGGTGTGACGGAAAGGAGAGCCTGTTACAAGATCGCAGGCAAGAAGAAGACCAAAGG
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 AGGCAGGAACAGGAGAGGGAGCTAGCTGAGGGAGAGGAGCAAAGTGAGAAACAAGAGCGA
 CTTGAACAGCGCACAGGCAGCGCCGCGACGAGGAGCTGTGGCGCAAAGCAAGAATGG
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 ACTGAGGAGTTTCCAGACGAAGAGCAACTGCGAAGGCGGGAGCTGCTGGAGCTGAGGAGG
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 CTGAGGCGCGAGCAGCAGCTGAGGCGCGAGCAGCAGCTGAGGCGCGAGCAGCAGCTGAGG
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CGCCAGGAGGAGGAAGAGAGGCTCCAGCAGCGGTTGAGGAGCGAGCAACAATAAGACGC
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 GAGAGGCGAGAGCAGCGGCTGAAGCGCGAGCAGGAGGAGAGGCGCGATCAGCTGCTGAAG
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 CGACTGAAGCGCGAGGAGGTGGAGAGACTCGAGCAGGAGGAGAGGCGCGAGCAGCGGCTG
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 GAGGAGCAGCGCCGGACTTCACATGGCAGTGGCAGGCCGAGGAAAAGAGCGAGAGGGGC
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 GAGGAGCGCCAGCAGCGGAACAACGGTTTCTCCCGAGGAGGAGAGAAGGAGCAGCGG
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 CGAGAAGAGCAAAAAGGAAGCCAAAAGGCGCGACAGGAAGTCCCAAGAGGAAAAGCAGTTG
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 GAGGAACAGCTGCTCCAGGAAAAGGGAGGAACAGCCGCTGCGCCGCAAGAGCGTGACAGA
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 CGCCGCCAGGAGCGCGGCAACAGCGGCGTCAGGACCGTGACAGAAAATTCGCGAGGAG

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GAACAGCTGCGCCAGGAGAGGGAGGAACAGCAGCTGAGCCGCCAAGAGCGTGACAGAAAA
TTCCGTTTAGAGGAACAGAAAAGTGCGCCGCCAGGAACAAGAGAGAAAAATTCATGGAGGAC
GAACAGCAGCTGCGCCGCCAGGAGGGCCAAACAGCTGCGCCAGGAGCGCGACAGAAAA
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GAACAGCAGCTGCGCCGCCAAGAGCGTGACAGAAAAATTCGCGAAGAGGAACAGCAGCTC
CGCCGTCAGGAACGAGAGAGAAAAATTCCTCCAGGAGGAACAGCAGCTGCGCCGCCAGGAA
CTGGAGAGAAAAATTCGTGAGGAGGAACAGCTGCGCCAAGAAACGGAGCAAGAGCAGCTG
CGCCGCCAAGAACGCTACAGAAAAATCCTAGAGGAAGAGCAGCTCCGTCCGAAAGGGAA
GAACAGCAGCTGCGCCGCCAGGAGCGCGACAGAAAAATTCGCGAGGAGGAACAGCTCCGC
CAGGAGAGGGAGGAACAGCAGCTGCGCAGCCAAGAGTCTGACAGAAAAATTCGCGAGGAG
GAACAGCTACGCCAGGAGAGGGAAGAACAGCAGCTGCGCCCCAACAGCGTGACGGAAG
TATCGCTGGGAAGAAGAGCAGCTCCAATTGAGGAACAAGAGCAGAGGCTGCGGCAGGAG
CGAGACCGGCAGTACCGGCGGAGGAGCAGTTTGCCACGCAGGAGAAGAGTCGTCTGAG
GAACAAGAACTATGGCAAGAAGAGGAGCAGAAACGTCGCCAGGAACGGGAAGGAAATTA
CGGAAGAACACATCCGCGCCAGCAGAAGGAGGAACAGAGGCACCGCCAAGTCGGGGAG
ATAAAATCCCAAGAAGGGGAGGGCCATGGGCGGCTTCTGGAGCCCGCACTCATCAGTTT
GCCAGTGTCCAGTGCGCTCCAGCCCTCTATGAGTACATCCAAGAGCAGAGATCTCAA
TACCGCCCTTAAGTGATGTTG
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_007113
- Insert Size:** 5800 bp
- OTI Disclaimer:** 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.
- 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](#)
- OTI Annotation:** This clone contains very repetitive sequences through out the ORF, so the internal sequences cannot be verified by conventional sequencing. The clone was amplified using genomic DNA and both ends and insert size was confirmed. Based on all the sequencing data, one SNP was identified.
- 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:

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_007113.2](#), [NP_009044.2](#)

RefSeq Size: 6900 bp

RefSeq ORF: 5832 bp

Locus ID: 7062

UniProt ID: [Q07283](#)

Cytogenetics: 1q21.3

Gene Summary: The protein encoded by this gene forms crosslinked complexes with itself and keratin intermediate filaments to provide mechanical strength to the hair follicle inner root sheath. The encoded protein also is important for structural integrity of the filiform papillae of the tongue. Defects in this gene are a cause of uncombable hair syndrome. [provided by RefSeq, Feb 2017]