

Product datasheet for **RG216407**

KRTAP5-8 (NM_021046) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	KRTAP5-8
Synonyms:	KRTAP5-2; KRTAP5.8; UHSKerB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG216407 representing NM_021046
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTGCACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCTGCTGTGGCTGCTCTGGAGGCTGTGGCTCCGGCTGTGGGGCTGTGGCTCCGGCTGTGGGGCT
GCGGCTCTGGCTGTGGGGATGTGGCTCTAGCCGCTGTGTGCCATCTGCTGCTGCAAGCCCGTGTGCTG
CTGTGTGCCAGCTGTTCTGCTCCAGCTGTGGCTCCTGTGGGGCTCCAAGGGGGCCGTGGCTCCTGT
GGGGCTCCAAGGGGACTGTGGCTCCTGTGGGGCTCCAAGGAGGCTGTGGTCTTGTGGCTGCTCC
AGTGACAGTGTATAAGCCCTGCTGCTGCTCCTCAGGCTGTGGGTATCCTGCTGCCAGTCCAGCTGCTG
CAAACCTGCTGTTCCAGTCCAGCTGTTGTAAGCCCTGCAGCTGCTCTCAGGCTGTGGGTATCCTGCTG
TGCCAGTCCAGCTGCTGCAAGCCCTGCTGTTCCAGTCCAGCTGCTGTAAGCCCTGCTGCTGCTCTCAG
GCTGTGGGTATCCTGCTGCCAGTCCAGCTGCTGCAAGCCCTGCTGTTCCAGTCCAGCTGCTGTGCTCC
AATTTGCTGCCAGTCAAGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216407 representing NM_021046
Red=Cloning site Green=Tags(s)

MGCCGCSGGCGSGCGGCGSGCGGCGSSRCVPICCCKPVCCCVPAACSCSSCGSGGSKGGRGSC
GGSKGDCGSCGSGKGGCGSGCSQCSCYKPCSSSGCGSSCCQSSCKPCCSQSSCKPCSSSGCGSSC
CQSSCKPCCSQSSCKPCCSSSGCGSSCCQSSCKPCCSQSSCVPICCQCKI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_021046

ORF Size: 582 bp

OTI Disclaimer: 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 was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_021046.1](#), [NP_066384.1](#)

RefSeq Size: 585 bp

RefSeq ORF: 564 bp

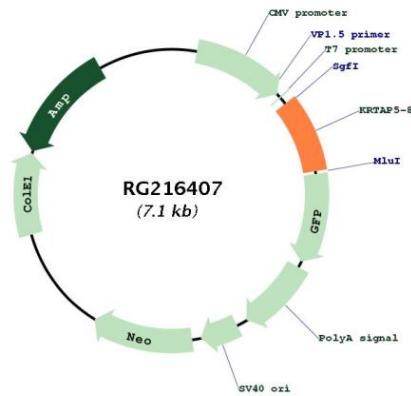
Locus ID: 57830

UniProt ID: [O75690](#)

Cytogenetics: 11q13.4

Gene Summary: In the hair cortex, hair keratin intermediate filaments are embedded in an interfilamentous matrix, consisting of hair keratin-associated protein (KRTAP), which are essential for the formation of a rigid and resistant hair shaft through their extensive disulfide bond cross-linking with abundant cysteine residues of hair keratins. The matrix proteins include the high-sulfur and high-glycine-tyrosine keratins.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG216407