

Product datasheet for **MG220785**

Krtap5-1 (NM_015808) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Krtap5-1 (NM_015808) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Krtap5-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220785 representing NM_015808, codon optimized . Due to the complexity of NM_015808, the ORF clone is codon optimized for mammalian Expression. The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACATGTTGTGGATGTTCCGGAGGCTGTGGAAGCTCTTGTGGAGGATGCGGGTCCAGCTGTGGAGGTT
GCGGTAGCGGATGCGGGGATGCGGCTCAAATTGCGGCGGCTGCGGTAGCTCCTGCTGCAAACCTGTGTG
CTGTTGTAACCCGCTGCTGTTGCGTCCCGTGTGTTCTTGTCTTCATGCGGCGGATGCGGCTTTCT
TGTGGTGGGTGCGGGTCTTGCAGGAGTGTGGAGGTTGCGGCTCCAGCTGTTGCAAGCCAGTGTGTT
GTTGTGCTGTGTGCAAGTGTCAAGTGTGGCGGATGCAAACCTGCTGTTGCAATCTTCTGCTG
TAAGCCCTGCTGCTTCCGGTTCGGTTCAGCTGTTGTCAGTCATCTTGTGCAAGCCATGCTGCTGT
CAGTCAAGTGTGCAAACCTGTTGTTGTCAATCTAGTTGTTGCAAGCCCTGCTGTAGCTCCGGCTGTG
GGAGCTCTTGTGTCAGAGTAGCTGCTGCAAGCCCTGCTGTTGTCAGTCCAGCTGTTGCAAGCCCTGTTG
TTGTCAGAGTAGTTGCTGCAAGCCCTGTTGCTGCCAGAGTTCTGTTGCAAGCCCTGCTGCTGCCAGTCT
TCTTGTGTAACCTTGTGTTCCAGTGGCTGCGGCTCCTCTGTTGCCAGGACTCCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220785 representing NM_015808
 Red=Cloning site Green=Tags(s)

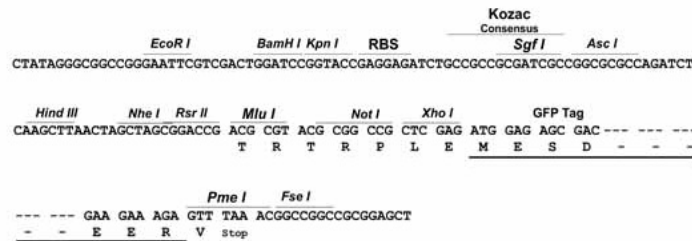
MTCCGCSGGCGSSCGGCGSSCGGCGSGCGGCGSNCGGCGSSCCKPVCCCKPVCCCVPVCSRSSCGGCGSS
 CGGCGSCGSSCGGCGSSCCKPVCCCVPVCSRSSCGGCKPCCCQSSCCKPCCSSGCGSSCCQSSCCKPCCC
 QSSCCKPCCCQSSCCKPCCSSGCGSSCCQSSCCKPCCCQSSCCKPCCCQSSCCKPCCCQSSCCKPCCCQSS
 CCKPCCSSGCGSSCCQDSC

TRTRPLE - GFP Tag - V

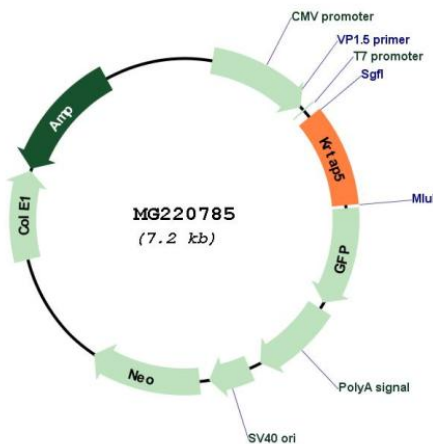
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_015808

ORF Size: 690 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:	<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_015808.1 , NP_056623.1
RefSeq Size:	693 bp
RefSeq ORF:	693 bp
Locus ID:	50774
UniProt ID:	Q64507
Cytogenetics:	7 F5
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]