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Product datasheet for RN205536

Krt17 (NM_212545) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Krt17 (NM_212545) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Krt17
Synonyms:	Ka17
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>RN205536 representing NM_212545
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTACCACCATCCGCCAGTTCACGTCCTCCAGCTCCATCAAGGGCTCCTCTGGCCTGGGTGGCGGCT
CATCTAGGACCTCCTGCCGACTGTCTGGCAGCCTGGGTGCAGGCTCCTGCAGGCTGGGGTCAGCTAGTGG
CCTGGGCAGTGCTCTTGGGGGCAACAGTTACTCCAGCTGCTACAGCTTTGGTACTGGCAGTGGTTATGGA
GGCAACTTTGGGGGTGTTGATGGGCTGCTGGCTGGAGGGGAGAAGGCCACCATGCAGAACCTCAACGACC
GCCTGGCCTCCTACCTGGACAAGGTGCGTGCCCTGGAAGAGGCCAACACCGAGCTGGAGGTGAAGATCCG
AGACTGGTACCAGAAGCAGGCCCCAGGGCCAGCCCGCGACTACAGTGCTTATTACCAGACCATTGAGGAT
CTGAAGAACAAGATCCTCGTGGCCACTGTGGATAATGCCAGCATCCTACTCCAGATTGACAATGCCCGCT
TGGCAGCTGATGACTTCCGTACCAAGTTTGAGACGGAGCAGGCCCTGCGCATGAGTGTGGAGGCGGACAT
CAATGGCCTACGCCGGGTGCTGGATGAGCTGACCCTGGCCAGAGCTGACCTGGAGATGCAGATTGAGAAT
CTCAAGGAGGAGCTGGCCTACCTGAAGAAGAACCATGAGGAGGAGATGAATGCTCTGAGAGGCCAGGTGG
GCGGCGAAATCAACGTGGAGATGGACGCAGCCCCTGGTGTGGACCTGAGCCGCATCCTGTCAGAGATGCG
GGATCAGTACGAGAAGATGGCTGAGAAGAACCGCAAGGATGCCGAAGATTGGTTCTTCAGCAAGACTGAG
GAGCTAAACCGCGAGGTGGCCACCAACAGCGAGCTGGTGCAGAGCGGCAAGAGCGAGATCTCTGAGCTCC
GGCGCACCATGCAGGCCCTGGAGATCGAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCTGGAGGGCAG
CCTGGCAGAGACAGAGAACCGCTACTGCGTGCAGCTGTCCCAGATCCAGGGTTTGATTGGCAGCGTGGAG
GAGCAGCTGGCTCAGCTGCGCTGCGAGATGGAGCAGCAGAATCAGGAGTACAAGATCCTGCTGGATGTGA
AGACTCGGCTGGAGCAGGAGATCGCCACCTACCGCCGTCTGCTGGAGGGCGAGGATGCCCACCTGACTCA
GTACAAGCCAAAAGAACCTGTGACCACCCGCCAGGTGCGCACCATTGTGGAAGAGGTCCAGGATGGCAAG
GTCATCTCATCCCGGGAGCAGGTCCACCAGACCACCCGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_212545
Insert Size:	1302 bp
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).
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_212545.2, NP_997710.1
RefSeq Size:	1536 bp
RefSeq ORF:	1302 bp
Locus ID:	287702
UniProt ID:	Q6IFU8
Cytogenetics:	10q31
Gene Summary:	Type I keratin involved in the formation and maintenance of various skin appendages, specifically in determining shape and orientation of hair. Required for the correct growth of hair follicles, in particular for the persistence of the anagen (growth) state. Modulates the function of TNF-alpha in the specific context of hair cycling. Regulates protein synthesis and epithelial cell growth through binding to the adapter protein SFN and by stimulating Akt/mTOR pathway. Involved in tissue repair. May be a marker of basal cell differentiation in complex epithelia and therefore indicative of a certain type of epithelial "stem cells". Acts as a promoter of epithelial proliferation by acting a regulator of immune response in skin: promotes Th1/Th17-dominated immune environment contributing to the development of basaloid skin tumors. May act as an autoantigen in the immunopathogenesis of psoriasis, with certain peptide regions being a major target for autoreactive T-cells and hence causing their proliferation.[UniProtKB/Swiss-Prot Function]

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