

Product datasheet for **RG206870**

Cytokeratin 5 (KRT5) (NM_000424) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Cytokeratin 5 (KRT5) (NM_000424) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Cytokeratin 5 |
| Synonyms: | CK5; DDD; DDD1; EBS2; K5; KRT5A |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG206870 representing NM_000424
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTCGCCAGTCAAGTGTCTCTCCGAGCGGGGAGTCTAGCTTCAGCACCGCCTCTGCCATCA
 CCCGTCTGTCTCCCGCACCAGCTTCACTCCGTGTCCCGTCCGGGGTGGCGGTGGTGGTTCGG
 CAGGGTACGCTTTCGGGTGCTTGTGGAGTGGGTGGCTATGGCAGCCGGAGCCTCTACAACCTGGGGGC
 TCCAAGAGGATATCCATCAGCACTAGTGGTGGCAGCTTCAAGAACCGTTTGGTGTGGTCTGGAGGCG
 GCTATGGCTTTGGAGGTGGTCCGGTAGTGGATTTGGTTTCGGCGGTGGAGCTGGTGGTGGCTTTGGCT
 TGGTGGCGGAGCTGGCTTTGGAGGTGGCTTCGGTGGCCCTGGCTTTCCTGTCTGCCCTCTGGAGGTATC
 CAAGAGGTCACTGTCAACCAGAGTCTCCTGACTCCCCTCAACCTGCAAATCGACCCAGCATCCAGAGGG
 TGAGGACCGAGGAGCGCAGCAGATCAAGACCCCAACAATAAGTTTGCCTCCTTCATCGACAAGGTGCG
 GTTCTCGAGCAGCAGAACAAGTTCTGGACACCAAGTGGACCCTGCTGCAGGAGCAGGGCACAAGACC
 GTGAGGCAGAACCTGGAGCCGTTGTTCCGAGCAGTACATCAACAACCTCAGGAGGCAGCTGGACAGCATCG
 TGGGGAAACGGGGCCGCCTGGACTCAGAGCTAAGAAACATGCAGGACCTGGTGAAGACTTCAAGAACA
 GTATGAGGATGAAATCAACAAGCGTACCACTGCTGAGAATGAGTTTGTGATGCTGAAGAAGGATGTAGAT
 GCTGCCTACATGAACAAGGTGGAGCTGGAGGCCAAGGTTGATGCACTGATGGATGAGATTAACCTTCATGA
 AGATGTTCTTTGATGCGGAGCTGTCCCAGATGCAGACGCATGTCTCTGACACCTCAGTGGTCTCTCCAT
 GGACAACAACCGCAACCTGGACCTGGATAGCATCATCGCTGAGGTCAAGGCCAGTATGAGGAGATTGCC
 AACCGCAGCCGGACCGAAGCCGAGTCTGGTATCAGACCAAGTATGAGGAGCTGCAGCAGACAGCTGGCC
 GGCATGGCGATGACCTCCGCAACACCAAGCATGAGATCTCTGAGATGAACCGGATGATCCAGAGGCTGAG
 AGCCGAGATTGACAATGTCAAGAAACAGTGCGCCAATCTGCAGAACGCCATTGCGGATGCCGAGCAGCGT
 GGGGAGCTGGCCCTCAAGGATGCCAGGAACAAGCTGGCCGAGCTGGAGGAGGCCCTGCAGAAGGCCAAGC
 AGGACATGGCCCGGCTGCTGCGTGAAGTACCAGGAGCTCATGAACACCAAGCTGGCCCTGGACGTGGAGAT
 CGCCACTTACCGCAAGCTGCTGGAGGGCGAGGAATGCAGACTCAGTGGAGAAGGAGTTGGACCACTCAAC
 ATCTCTGTTGTCACAAGCAGTGTTCCTCTGGATATGGCAGTGGCAGTGGCTATGGCGGTGGCCTCGGTG
 GAGGTCTTGGCGGCGCCTCGGTGGAGGTCTTGGCGGAGTGGCAGTGGAAAGCTACTACTCCAGCAGCAG
 TGGGGGTGTCGGCCTAAGTGGTGGGCTCAGTGTGGGGGCTCTGGCTTCAAGCAGTGGCCGAGGG
 CTGGGGGTGGGCTTTGGCAGTGGCGGGGTAGCAGCTCCAGCGTCAAATTTGTCTCCACCACCTCTCTCT
 CCCGGAAGAGCTTCAAGAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG206870 representing NM_000424
 Red=Cloning site Green=Tags(s)

MSRQSSVSFRSGGSRFSTASAITPSVSRSTFTSVSRSGGGGGGFRVSLAGACGVGGYGSRSLYNLGG
 SKRISISTSGGSFRNRFAGAGGGYFGGGAGSGFGGGAGGGFGLGGGAGFGGGFGGPGFPVCPGGI
 QEVTVNQSLTPLNLQIDPSIQVRTEEREQIKTLNKFASFIDKVRFLQKNVLDTKWTLLEQGTGT
 VRQNLEPLFEQYINNLRQLDSIVGERGRLDSELRNMQDLVEDFNKYEDEINKRTTAENEFVMLKKDVD
 AAYMNKVELEAKVDALMDEINFMKMFDAELSQMQTHVSDTSVVL SMDNNRNLDSLIIAEVKAQYEEIA
 NRSRTEAESWYQTKYEELQQTAGRHGDDL RNTKHEISEMNRMIQRLRAEIDNVKKQCANLQNAIADAEQR
 GELALKDARNKLAEL EEALQKAKQDMARLLREYQELMNTKLALDVEIATYRKLLEGEECRLSGEGVGPVN
 ISVVTSSVSSGYSGSGYGGGLGGGLGGGLAGGGSGSYSSSSGGVGLSGGLSVGGSGFSASSGRG
 LGVFGSGGGSSSVKVFSTTSSSRKSFKS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_000424

ORF Size: 1770 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.

RefSeq: [NM_000424.3](#), [NP_000415.2](#)

RefSeq Size: 2320 bp

RefSeq ORF: 1773 bp

Locus ID: 3852

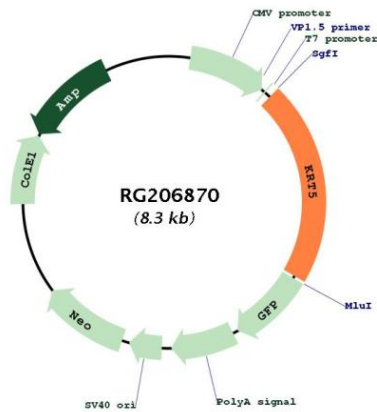
UniProt ID: [P13647](#)

Cytogenetics: 12q13.13

Domains: filament

Gene Summary: 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. This type II cytokeratin is specifically expressed in the basal layer of the epidermis with family member KRT14. Mutations in these genes have been associated with a complex of diseases termed epidermolysis bullosa simplex. The type II cytokeratins are clustered in a region of chromosome 12q12-q13. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG206870