

Product datasheet for **RG212859**

Keratin 80 (KRT80) (NM_182507) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Keratin 80 (KRT80) (NM_182507) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Keratin 80 |
| Synonyms: | KB20 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG212859 representing NM_182507
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCTGCCACTTCCCAGGGAGCCCTCCGTGGGCTCTTGTGGTTCAGCCCGGGGCTCAGCCCCGACT
 GGTCACACCTGACCCATTTCGCCGCTTCTGCTCTCCAGGTGCAAGCCCTGGAACAGCGCAACCAGCT
 GCTGGAGACACGCTGGAGCTTCTGCAGGGCCAGGACTCAGCCATCTTCGACCTCGGGCATCTCTATGAG
 GAATATCAGGGCCGGCTGCAGGAGAACTGCGCAAAGTGAGCCAGGAGCGGGGAGCTGGAGGCCAACC
 TGCTGCAGGTGCTGGAGAAGTTGAGGAGTTTGAATCAGGTATGAGGATGAGATCTCCAAGCGCACAGA
 CATGGAGTTCACCTTTGTTTCAGCTGAAGAAGGTAGCCTGCCAGCCTGCCCCAGGGGCTCCTTCTCATG
 GGCCTGGGCCCTTTCCCTCCAGATATCCTACTCTCCTTTATGCCAATCAAAGCCCTCAGAGGCTTA
 AGTCCCAGGACCAACAGACAGACAGGGGATACCCCATCCCATCCAGCTCCTTTTCGAGGCTCTGAG
 CCAGATCTCCTTGAATCACCCCACTCTCACCCAGGAGGCAGCCCCAGCCACTCCTGCCCTGGGA
 CCTCCATTCCCTCTCCACCCTCACCCTGCTGCCAACCCAGGACCTGGATGCAGAGTGTCTTCATC
 GGACTGAGCTGGAACCAAGTAAAAAGCCTGGAGAGCTTCGTGGAGTTGATGAAAACCTATATAGCA
 GGAGCTGAAGGACCTGGCAGCACAGGTGAAGGATGTGTGGTGCAGCTCGGCATGGACAGCCGCTGCCAC
 ATCGACCTGAGCGGCATCGTGGAGGAGTGAAGGCCAGTATGACGCCGTGCGGGCTCGCAGCCTGGAGG
 AGGCCGAGGCATACTCTCGGAGCCAGCTGGAGGAGCAGGCCGCCCGCTCGGCCGAGTATGGGAGCAGCCT
 CCAGAGCAGCCGAGTGAATCGCGGATCTCAATGTGCGCATCCAGAAGTGCAGTCCAGATCCTCTCT
 GTCAAGAGCCATTGCCTGAAACTGGAGGAGAATCAAGACAGCTGAGGAGCAGGTTGAGCTGGCCTTCC
 AGGATGCCAAGACCAAGCTGGCCAGCTGGAGGCCGCCCTGCAGCAGGCCAAGCAGGACATGGCCGGCA
 GCTGCGCAAGTACCAGGAGCTGATGAACGTCAAGCTGGCCCTGGACATCGAGATCGCCACCTACAGGAAG
 CTGGTGGAGGGCAGGAGGGCAGGATGGACTCGCCCTCAGCCACTGTGGTTCAGCGCTGTGAGTCCAGGT
 GCAAACCCGCTGCCTCCAGATCAGGCCTCTCAAGGCCCCCTCCCGAAAGAAGAAGGGCAGCAAAGGCC
 CGTGATCAAAATCACCGAAATGTCAGAGAAGTACTTCTCGCAGGAGTCCGAGGTCTCAGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG212859 representing NM_182507
 Red=Cloning site Green=Tags(s)

MSCHFPGSPWALAGQPASAPDWSTPDPFAAFLLSQVQALEQRNQLLETRWSFLQGQDSAIIDLGHLYE
 EYQGRLEELRKVSQERQLEANLLQVLEKVEEFRIRYEDEISKRTDMEFTFVQLKKVACPACPRGSFLM
 GPGPSFPPDILLSFMPNQSPQRLKSQDQQTDRGIPSPSSSFFEALSQISSGITPTLTQEAPQPTPALG
 PSIPSPTHHCCQPQDLDAECLHRTELETKLKSLESFVELMKTIEYQELKDLAAQVKDVSVTVMDSRCH
 IDLSGIVEEVKAQYDAVAARSLEEAAYSRSQLEEQAARSAEYGSLSQSSRSEIADLNVRIQKLRSQLS
 VKSHCLKLEENIKTAEQELAFQDAKTKLAQLEAALQQAQDMARQLRKYQELMNVKLAALDIEIATYRK
 LVEGEEGRMDSPSATVVSQVSRCKTAASRGLSKAPSRKKKSGKGPVIKITEMSEKYFSQESEVSE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_182507

ORF Size: 1461 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_182507.1](#), [NP_872313.1](#)

RefSeq Size: 3411 bp

RefSeq ORF: 1359 bp

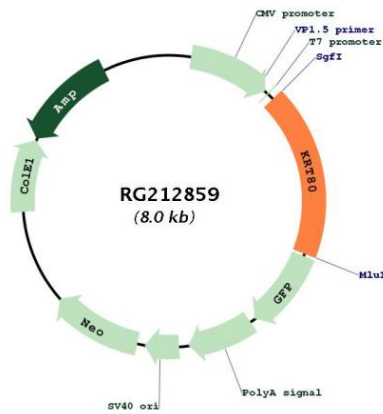
Locus ID: 144501

UniProt ID: [Q6KB66](#)

Cytogenetics: 12q13.13

Gene Summary: Keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into epithelial keratins and hair keratins. This gene's expression profile shows that it encodes a type II epithelial keratin, although structurally the encoded protein is more like a type II hair keratin. This protein is involved in cell differentiation, localizing near desmosomal plaques in earlier stages of differentiation but then dispersing throughout the cytoplasm in terminally differentiating cells. The type II keratins are clustered in a region of chromosome 12q13. Two transcript variants encoding two different fully functional isoforms have been found for this gene.[provided by RefSeq, Oct 2010]

Product images:



Circular map for RG212859