

Product datasheet for **RG224946**

Keratin 12 (KRT12) (NM_000223) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Keratin 12 (KRT12) (NM_000223) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Keratin 12
Synonyms:	K12; MECD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG224946 representing NM_000223
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGATCTCTCCAACAACACCATGTCACTCTCAGTGCACACCCCGGACTGTCCCGCGGCTCTCCTCGC
 AGAGTGTGATAGGCAGACCCAGGGGCATGTCTGCTTCCAGTGTTGGAAGTGGTTATGGGGGAAGTGCCTT
 TGGCTTTGGAGCCAGCTGTGGGGGAGGCTTTTCTGCTGCTTCCATGTTTGGTTCTAGTTCGGCTTTGGG
 GGTGGCTCCGGAAGTTCATGGCAGGAGGACTGGGTGCTGGTTATGGGAGAGCCCTGGGTGGAGGTAGCT
 TTGGAGGGCTGGGGATGGGATTTGGGGGAGCCAGGAGGTGGCTCTTAGGTATTCTCTCGGGCAATGA
 TGGAGGCCCTTCTTTCTGGATCAGAAAAAGAACTATGCAAAATCTTAATGATAGATTAGCTTCTACCTG
 GATAAGGTGCGAGCTCTAGAAGAGGCTAATACTGAGCTAGAAAAATAAATTCGAGAATGGTATGAAACAC
 GAGGAAGTGGGACTGCAGATGCTTACAGAGCGATTACAGCAAAATATTATCCACTGATTGAAGACCTCAG
 GAATAAGATCATTTAGCCAGCATTGGAATGCCAGCTCCTCTTGAGATTGACAATGCGAGACTAGCT
 GCTGAGGACTTCAGGATGAAGTATGAGAATGAAGTGGCCCTGCGCCAGGCGTAGAGGCCGACATCAATG
 GCCTGCGCCGGGTGCTGGACGAGCTGACCTGACCAGGACCGACCTGGAGATGCAGATCGAGAGCCTGAA
 CGAGGAGCTGGCTACATGAAGAAGAACCACGAGGATGAGCTCCAAAGCTTCCGGGTGGCGGCCAGGC
 GAGGTCAGCGTAGAAATGACGCTGCCCGGAGTGGACCTCACCAGGCTCCTCAATGATATGCGGGCGC
 AGTATGAAACCATCGCTGAGCAGAATCGGAAGGACGCTGAAGCCTGGTTTATTGAAAAGAGCGGGGAGCT
 CCGTAAGGAGATTAGCACCAACACCGAGCAGCTTCAGTCCAGCAAGAGCGAGGTACCCAGCTGCGTCGC
 GCCTTTTCAGAACCTGGAGATCGAGCTACAGTCCAGCTCGCCATGAAGAAATCCCTGGAGGACTCCTTGG
 CCGAAGCCGAGGGCGATTACTGCGCGCAGCTGTCCAGGTGCAGCAGCTCATCAGCAACCTGGAGGCACA
 GCTGCTCCAGGTGCGCGCGGACGCAGAGCGCAGAACGTGGACCACCGAGCGCTGCTGAATGTCAAGGCC
 CGCCTGGAGCTGGAGATTGAGACCTACCGCCGCTGCTGGACGGGAGGCCCAAGGTGATGGTTTGGAGG
 AAAGTTTATTTGTGACAGACTCCAAATCACAAGCAGTCAACTGATTCTCTAAAGACCAACCAAAAC
 CCGAAAAATCAAGACAGTTGTGCAGGAGATGGTGAATGGTGAGGTGGTCTCATCTCAAGTTCAGGAAAT
 GAAGAATAATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG224946 representing NM_000223
 Red=Cloning site Green=Tags(s)

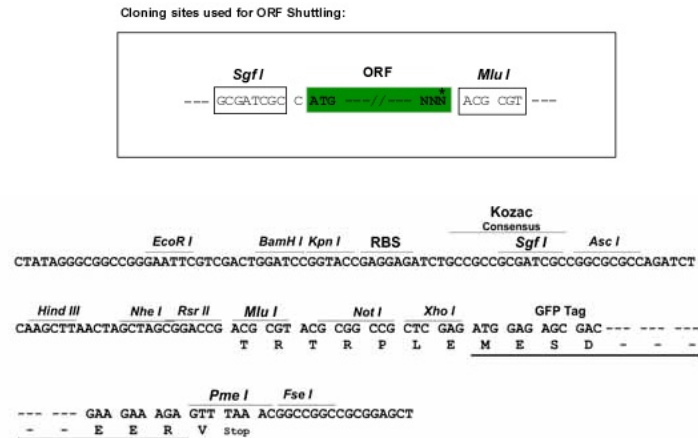
MDLSNNTMSLSVRTPGLSRRLSSQSVIGRPRGMSASSVSGSYGGSFAFGASCGGGFSAASMFSSSGFG
 GSGSSMAGGLGAGYGRALGGSFGLGMFGGSPGGSLGILSGNDGGLSGSEKETMQNLNDRLASYL
 DKVRALEEANTELENKIREWYETRGTGTADASQSDYSKYPLIEDLRNKIISASIGNAQLLLQIDNARLA
 AEDFRMKYENELALRQGVADINGLRRVLDLTLTRTDLEMQIESLNEELAYMKKNHEDELQSFRVGGPG
 EVSVEMDAAPGVDLTRLNLMRAQYETIAEQNRKDAEAWFIEKSGELRKEISTNTEQLQSSKSEVTDLRR
 AFQNLIELQSQLAMKKSLEDSLAEGAEDYCAQLSQVQQLISNLEAQLLQVRADAERQNVDPHQRLLNVKA
 RLELEIETRYRLLDGEAQDGLSESLFVTDSSKSAQSTDSKDPKTRIKTVVQEMVNGEVVSSQVQEI
 EELM

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_000223

ORF Size: 1482 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_000223.4](#)

RefSeq Size: 1867 bp

RefSeq ORF: 1485 bp

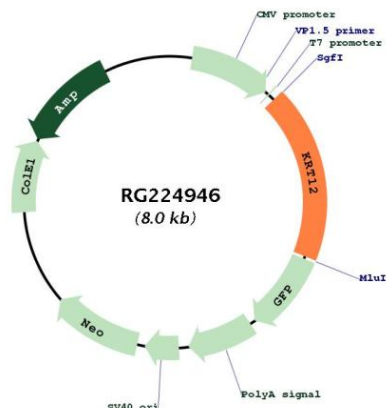
Locus ID: 3859

UniProt ID: [Q99456](#)

Cytogenetics: 17q21.2

Gene Summary: KRT12 encodes the type I intermediate filament chain keratin 12, expressed in corneal epithelia. Mutations in this gene lead to Meesmann corneal dystrophy. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG224946