

Product datasheet for **RG221911**

KRT27 (NM_181537) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KRT27 (NM_181537) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KRT27
Synonyms:	K25IRS3; KRT25C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221911 representing NM_181537
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTGTGCGCTTTTCTTCTACCTCCAGGAGACTTGGCTCTTGCAGGGGCACTGGCTCTGTGAGGCTCT
 CTAGTGGGGGAGCAGGCTTTGGGGCTGGAAACACATGCGGTGTGCCAGGCATTGGAAGTGGCTTCTCTTG
 TGCTTTTGGGGGACCTCATCTGCAGGAGGCTATGGCGGAGGTCTGGCGGGGGAAGTGCTTCTGTGCT
 GCCTTCACAGGGAATGAGCACGGCCTCCTCTCTGGCAATGAGAAGGTGACCATGCAGAACCTCAACGACC
 GCTTGGCCTCCTACCTGGAGAATGTTTCGAGCCCTAGAGGAGGCCAACGCTGACTTGGAGCAGAAGATCAA
 GGGGTGGTATGAGAAATTTGACCTGGTCTTGGCGTGGCCTTGATCATGATTACAGCAGATATTTCCCA
 ATTATTGACAACTTAAGAACCAGATAATTTCTGCACTACCAGTAATGCCCATGTTGCTCTGCAAAATG
 ATAATGCAAGACTAACAGCTGATGACTTCAGACTAAAGTTTGAACGAGCTAGCGCTTCACCAGAGCGT
 GGAGGCGGACATCAATGGTTTGCAGAGGCTCTGGATGAGCTGACCTTGTGCAGAACGGACCTGGAGATC
 CAGCTGGAACTCTCAGTGAGGAGCTCGCTTACCTCAAGAAGAATCATGAGGAGGAAATGAAAGCTCTTC
 AGTGCGCGGCTGGAGGCAACGTGAACGTGGAGATGAACGCGGCCCGGGGTAGACCTCACGGTTCTGCT
 GAACAATATGCGAGCTGAGTACGAAGCCCTCGCAGAGCAGAACCAGGGACGCGGAGGCCTGGTTCAAC
 GAAAAGAGCGCCTCGCTGCAGCAGCAGATCTCTGACGACGCTGGCGCCACCACCTCAGCCCGAATGAGC
 TTACCGAGATGAAACGCACTCTTCAAACCTTGAGATTGAACTTCAGTCCCTCTTAGCAACGAAACACTC
 CCTGGAGTGCTCCTTGACAGAGACCGAGAGTAAGTACTGTGCACAGCTGGCACAGATCCAGGCTCAGATC
 GGGGCCCTGGAGGAGCAGCTGCACCAAGTCAAGACCGAGACCGAGGGCCAGAAGCTCGAGTATGAGCAGC
 TCCTTGACATCAAGGTCCACCTGGAAAAAGAAATTGAGACCTACTGCCTCCTGATAGATGGAGAAGATGG
 CTCTGTCTAAATCAAAGGCTATGGAGGCCAGGAAATCAAACAAAAGATTCTCTAAAACACCATT
 GTCAAAACAGTTGTTGAAGAGATAGATCCTCGTGGCAAAGTTCTCTCATCCAGAGTTCACACTGTGGAAG
 AGAAATCCACCAAAGTCAACAACAAGAATGAACAGAGGGTGTCTTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

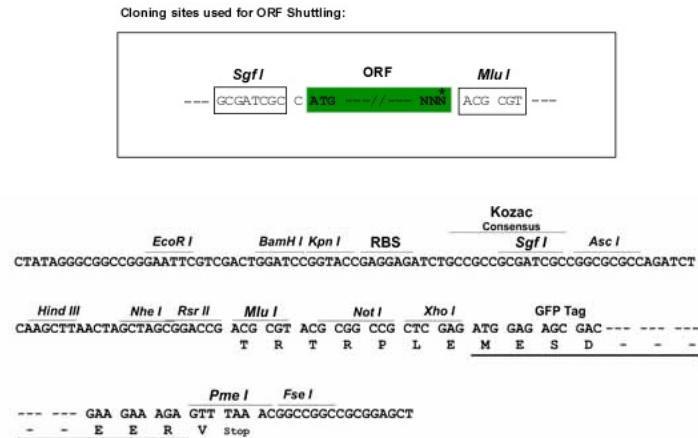
>RG221911 representing NM_181537
 Red=Cloning site Green=Tags(s)

MSVRFSSSTRRLGSCGGTGSVRLSSGGAGFGAGNTCGVPGIGSGFSCAFGGTSSAGGYGGGLGGGSASCA
 AFTGNEHGLLSGNEKVTMQNLNDRLASYLENVRALEEANADLEQIKGWYEKFGPGSCRLDHDYSRYFP
 IIDKLNQIISATTSNAHVVLQNDNARLTADDFRLKFENELALHQSVEADINGLRRVLDLTLCRTDLEI
 QLETLSEELAYLKKNHEEEMKALQCAAGGNVNVEMNAAPGVDLTVLLNNMRAEYEAQNRDAEAWFN
 EKSASLQQQISDDAGATTARNELTEMKRTLQTLIELQSLATKHSLECSLTETESNYCAQLAQIQAQI
 GALEEQHQRTEETEGQKLEYEQLLDIKVHLEKEIETYCLLIDGEDGSCSKSGYGGPGNQTKDSSKTTI
 VKTVVEEIDPRGKVLSSRVHTVEEKSTKVNKNQEVSS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_181537

ORF Size: 1377 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_181537.2](#), [NP_853515.1](#)

RefSeq Size: 1635 bp

RefSeq ORF: 1380 bp

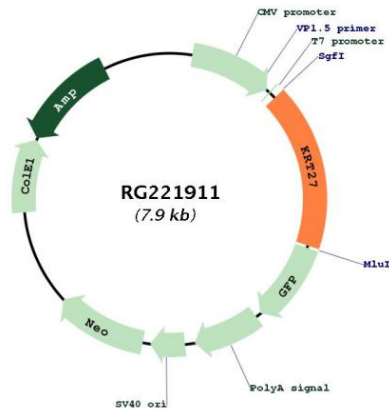
Locus ID: 342574

UniProt ID: [Q7Z3Y8](#)

Cytogenetics: 17q21.2

Gene Summary:

This gene encodes a member of the type I (acidic) keratin family, which belongs to the superfamily of intermediate filament (IF) proteins. Keratins are heteropolymeric structural proteins which form the intermediate filament. These filaments, along with actin microfilaments and microtubules, compose the cytoskeleton of epithelial cells. The type I keratin genes are clustered in a region of chromosome 17q12-q21. [provided by RefSeq, Jul 2009]

Product images:


Circular map for RG221911