

Product datasheet for **MG220545**

Krt13 (NM_010662) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Krt13 (NM_010662) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Krt13
Synonyms:	CK13; K13; Krt-1.1; Krt-1.13; Krt1-1; Krt1-13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220545 representing NM_010662 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCTGCCGCTTCAGAGTTCCTCCATGAGCTATGGAGGTGGTTTCGGAGCTGGTTCTTGCCAGCTTG
 GAGGAGGCCGTAATATCTCCTCGTCTCATCTCGGTTTGTCAGTGGAGGGTCAGCTGGAGGCTATGGAGG
 GGGCATGAGCTGTGGCTTTGGTGGAGGAGCTGGTGGTGGCTTTGGAGGTGGCTTTGGAGGTGGCTTTGGA
 GGTAGCTATGGCGGAGGTTTGGCGGTGGCTTTGGTGAATTCGGAGGTGTCGATGGTGGCCTCCTCTCTG
 GCAACGAGAAGATCACCATGCAGAACCTCAATGACCGCCTGGCCAGCTACCTGGATAAGGTGCGCGCCTT
 GGAGGCAGCCAATGCCGACCTGGAGGTGAAGATTCGTGACTGGCATCTGAAACAGAGCCAGCTAGTCCA
 GAGCGGGACTACAGTGCTTATTATAAGACCATCGAGGAGCTCCGGATCAAGATTCTGGAAGCCACCACGG
 ACAACAACCGGATCATCTGGAGATTGACAATGCCAGGCTGGTGCAGATGACTTCAGGCTCAAGTACGA
 AAATGAGCTGACCTTGCGCCAGAGCGTGGAGGCCGACATCAACGGCCTGCGCAGGGTGCTGGATGAGCTG
 ACTCTGGCTAAGACTGACCTGGAAATGCAGATTGAGAGCCTGAATGAAGAACTGGCTTACCTGAAGAAGA
 ACCACGAAGAGGAGATGAAGGAATTCAGCAACCAGGTAGTAGGCCAGGTCAATGTGGAGATGGACGCCAC
 CCCTGGCATTGATCTGACCCGTGTGCTGGCTGAGATGAGGGAGCAGTATGAAGCCCTGGCAGAGAAGAAT
 CGGAGGGATGCTGAGGAATGGTTCCAGACCAAGAGTGCAGAGCTGAACAAGGAAGTATCCTCCAACGCTG
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 GCAGTCCAGCTGAGCATGAAAGCCGGCCTGGAAGTACGTTGGCAGAGACAGAGTGCCGCTACGCCCTG
 CAGCTGCAACAGATCCAGGGGCTCATCAGCAGCATCGAGGCTCAGCTGAGCGAGCTCCGAAGTGAATGG
 AGTGCCAGAACCAGGAATACAAGATGCTGTTGGACATCAAACAAGGCTGGAACAGGAGATCGCCACCTA
 CCGCAGCTGCTAGAGGGCCAGGATGCTAAGATGACCGGCTTCAACTCCGAGGAAATAACACTACTACC
 TCCAACGGGTCCCCCTCCTCCAATTCGGTCGCCAGATTTCCGAAAGTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220545 representing NM_010662
 Red=Cloning site Green=Tags(s)

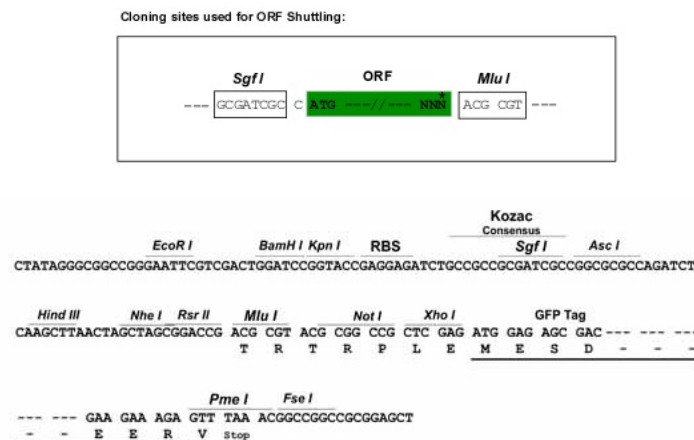
MSCRFQSSMSYGGGFGAGSCQLGGGRNISSCSRFTVGGSSAGGYGGGMSCGFGGGAGGGFGGGFGGGFG
 GSYGGGFGGGFGDFGGVDGGLLSGNEKITMQNLNDRLASYLDKVRALAEANADLEVKIRDWHLKQSPASP
 ERDYSAYYKTIEELRIKILEATTDNNRIILEIDNARLAADDFRLKYENELTLRQSVEADINGLRRVDEL
 TLAKTDLQMIESLNEELAYLKKNHHEEMKEFSNQVVGQVNVEMDATPGIDLTRVLAEMREQYEALAEKN
 RRDAEEWFQTKSAELNKEVSSNAEMIQTSKTEITELRRTLQGLEIELQSQLSMKAGLESTLAETECRYAL
 QLQQIQGLISSIEAQLSELRSEMECQNQEYKMLLDIKTRLEQEIATYRSLLEGQDAKMTGFNSGGNNTTT
 SNGSPSSNSGRPDFRKY

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_010662

ORF Size: 1311 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_010662.2](#), [NP_034792.1](#)

RefSeq Size: 1314 bp

RefSeq ORF: 1314 bp

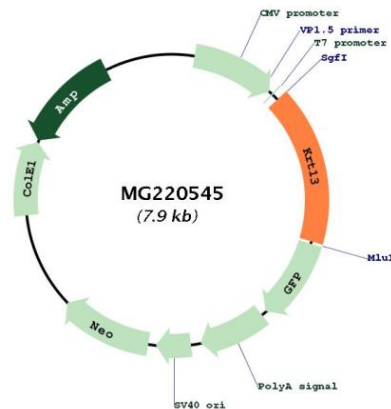
Locus ID: 16663

UniProt ID: [P08730](#)

Cytogenetics: 11 63.41 cM

Gene Summary: The protein encoded by this gene is a member of the keratin gene family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. Most of the type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. This type I cytokeratin is paired with keratin 4 and expressed in the suprabasal layers of non-cornified stratified epithelia. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MG220545