

## Product datasheet for **RG207509**

### Keratocan (KERA) (NM\_007035) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Keratocan (KERA) (NM_007035) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Keratocan
Synonyms:	CNA2; KTN; SLRR2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207509 representing NM_007035 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGGCACAATCTGTTTCATCATGTGGGTGTTATTCATAACAGACACTGTGTGGTCTAGAAGTGTAAGGCAGGTCTAAGTACATGATTCAGATGATTGGACTATTCAGACTTCGAGTGTCCCATGGAATGTTCTGCCACCCAGTTTTCTACTGCTTTATATTGTGAAAATAGAGGTCTCAAAGAAATTCCTGCTATTCTTCAAGAATTTGGTATCTTTATCTTCAAACAACCTGATAGAAACCATTCTGAAAAGCCATTTGAGAATGCCCCAGCTAAGATGGATAAATCTAAACAAGAACAATAACCAACTACGGAATTGAAAAGGAGCCCTAAGCCAGCTGAAGAAGTTGCTCTTCTTATTTCTGGAAGATAATGAGCTAGAGGAGGTACCTTCTCCATTGCCAAGAAGTTTAGAACAATTACAATTAGCTAGAAATAAGGTGTCCAGAATTCCTCAAGGGACCTTTAGCAATCTGGAGAACCTGACCTTCTTGACCTACAGAACAACAATTAGTGGACAATGCCTTTCAAAGAGACACTTTTAAAGGACTCAAGAATCTCATGCAGCTAAACATGGCCAAGAATGCCCTGAGGAATATGCCTCCAAGATTACCAGCAATACAATGCAGTTGTTTTAGACAACAATTCATTGAAGGAATACCAGAAAATATTTTATGTGATTCTAAAGTGGCCTTTTTGAGACTAAATCACAACAACCTGTGAGATGAGGGTCTCCCATCAAGAGGATTTGATGTATCATCAATTCATGATCTTCAACTGTGCGACAATCAACTCACAAGGTTCCCGAATCAGTGCTCATCTGCAGCACCTTACCTTGATCATAACAAAATTAAGTGTGAATGTCTGTGAATATGTCACAGCCCATCCATGCTGCCTGCAGAACGAGATTCCTTCAGTTATGGACCTCATCTTCGCTACCTCGTCTGGATGGAATGAAATCAAACCACCAATTCGAATGGCTTTAATGACCTGCTTCAGACTTCTGCAGGCTGCTATTATT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG207509 representing NM\_007035  
 Red=Cloning site Green=Tags(s)

MAGTICFIMWVLFITDTVWSRSVRQVYEVHSDSDWTIHDFFECPCMEFCPPSFPTALYCENRGLKEIPAIP  
 SRIWYL YLQNNLIETIPEKPFENATQLRWINLNKNKITNYGIEKALSQKLLFLFLEDNELEEVPSP  
 PRSLEQLQLARNKVSRIPOGTFSNLENL TLLDLQNNKLVDFQRTDFKGLKMLQNLMAKNALRNMP  
 LPANTMQLFLDNNNSIEGIPENYFNVIPKVAFLRLNHNKLSDEGLPSRGFVSSILDQLSHNQLTKVPRI  
 SAHLQHLHLDHNKIKSVNVSVICPSPMLPAERDSFSYGPFLRYLRDGNIEIKPPIPMLMTCFRLQAV  
 II

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007035

**ORF Size:** 1056 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\\_007035.3](#), [NP\\_008966.1](#)

**RefSeq Size:** 2543 bp

**RefSeq ORF:** 1059 bp

**Locus ID:** 11081

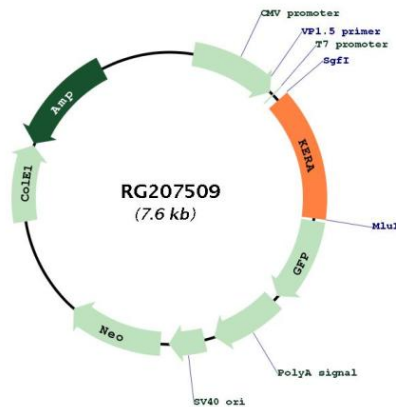
**UniProt ID:** [O60938](#)

**Cytogenetics:** 12q21.33

**Protein Families:** Secreted Protein

**Gene Summary:** The protein encoded by this gene is a keratan sulfate proteoglycan that is involved in corneal transparency. Defects in this gene are a cause of autosomal recessive cornea plana 2 (CNA2). [provided by RefSeq, May 2010]

### Product images:



Circular map for RG207509