

## Product datasheet for **RG201124**

### Cytokeratin 7 (KRT7) (NM\_005556) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                                     |
| Product Name:             | Cytokeratin 7 (KRT7) (NM_005556) Human Tagged ORF Clone |
| Tag:                      | TurboGFP  |
| Symbol:                   | KRT7  |
| Synonyms:                 | CK7; K2C7; K7; SCL                                      |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                 |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                  |



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**ORF Nucleotide Sequence:**

>RG201124 representing NM\_005556  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCCATCCACTTCAGCTCCCCGGTATTCACCTCGCGCTCAGCCGCCTTCTCGGGCCGGCGCCAGG  
 TGCCTGAGCTCGCTCGCCCCGGCGGCTTGGCAGCAGCAGCCTCTACGGCCTCGGCGCTCGCGGCC  
 GCGCGTGGCCGTGCGCTCTGCCTATGGGGGCCGGTGGCGCGCGCATCCGCGAGGTACCATTAACAG  
 AGCCTGTGGCCCGCTGCGGCTGGACGCCACCCTCCCTCCAGCGGTGCGCCAGGAGGAGAGCGAGC  
 AGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCATCGACAAGGTGCGGTTTCTGGAGCAGCAACA  
 GCTGCTGGAGACCAAGTGGACGCTGCTGCAGGAGCAGAAGTCGGCCAAGAGCAGCCGCTCCAGACATC  
 TTTGAGGCCAGATTGCTGGCCTTCGGGTGAGCTTGGGCACTGCAGGTGGATGGGGCCGCTGGAGG  
 CGGAGCTCGGAGCATGCAGGATGTGGTGGAGACTTCAAGAATAAGTACGAAGATGAAATTAACCGCCG  
 CACAGCTGCTGAGAATGAGTTTGGTGTGAAGAAGGATGTGGATGCTGCCTACATGAGCAAGGTGGAG  
 CTGGAGGCCAAGGTGGATGCCCTGAATGATGAGATCAACTTCTCAGGACCCTCAATGAGACGGAGTTGA  
 CAGAGCTGCAGTCCCAGATCTCCGACACATCTGTGGTGTGTCCATGGACAACAGTCGCTCCCTGGACCT  
 GGACGGCATCATCGCTGAGGTCAAGGCACAGTATGAGGAGATGGCCAAATGCAGCCGGGCTGAGGCTGAA  
 GCCTGGTACCAGACCAAGTTTGGAGCCCTCCAGGCCAGGCTGGGAAGCATGGGGACGACCTCCGGAATA  
 CCCGGAATGAGATTTAGAGATGAACCGGGCCATCCAGAGGCTGCAGGCTGAGATCGACAACATCAAGAA  
 CCAGCGTGCCAAGTTGGAGGCCCATTCGCGAGGCTGAGGAGCGTGGGAGCTGGCGCTCAAGGATGCT  
 CGTGCCAAGCAGGAGGAGCTGGAAGCCGCTGCAGCGGGCCAAGCAGGATATGGCACGGCAGCTGCGTG  
 AGTACCAGGAACATCATGAGCGTGAAGCTGGCCCTGGACATCGAGATCGCCACCTACCGCAAGCTGCTGGA  
 GGGCAGGAGAGCCGTTGGCTGGAGATGGAGTGGGAGCCGTGAATATCTCTGTGATGAATTCAGTGGT  
 GGCAGTAGCAGTGGCGGTGGCATTGGGCTGACCCTCGGGGAACCATGGGAGCAATGCCCTGAGCTTCT  
 CCAGCAGTGGCGTCTGGGCTCCTGAAGGCTTATTCATCCGGACCGCATCCGCCAGTCGAGGAGTGC  
 CCGCGAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG201124 representing NM\_005556  
 Red=Cloning site Green=Tags(s)

MSIHFSSPVFTSRSAFSGRGAQVRLSSARPGGLGSSSLYGLGASRPVAVRSAYGGPVGAGIREVTINQ  
 SLLAPLRDLADPSLQVRQESEQIKTLNKFASFIDKVRFLQKLLLETKWLLQEQKSAKSSRLPDI  
 FEAQIAGLRGQLEALQVDGGRLEAELRSMQDVVDFKNKYEDEINRRTAENEFVVLKGDVDAAYMSKVE  
 LEAKVDALNDEINFLRTLNETELTELQSQISDTSVVL SMDNSRSLDL DGI IAEVKAQYEEEMAKCSRAEAE  
 AWYQTKFETLQAQAGKHGDDLNRNREI SEMNRAIQRLQAEIDNIKNQRAKLEAAIAEAEERGELALKDA  
 RAKQEELEAALQRAKQDMARQLREYQELMSVKLALDIEIATYRKLLEGEESRLAGDVGAVNISVMNSTG  
 GSSSGGGIGLTLGGTMGSNALSFSSSAGPGLLKAYSIRTASARRSARD

**TRTRPLE** – GFP Tag – V

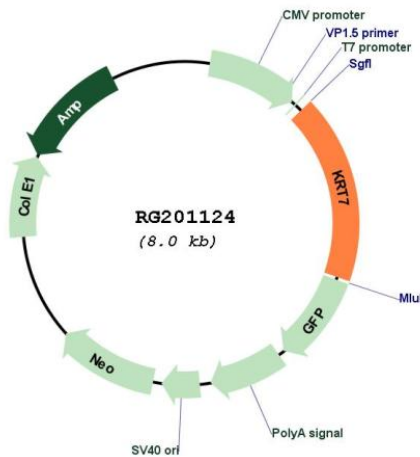
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_005556

ORF Size: 1407 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\\_005556.2](#)

**RefSeq Size:** 1753 bp

**RefSeq ORF:** 1410 bp

**Locus ID:** 3855

**UniProt ID:** [P08729](#)

**Cytogenetics:** 12q13.13

**Domains:** filament

**Protein Families:** ES Cell Differentiation/IPS

**Gene Summary:** The protein encoded by this gene is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in the simple epithelia lining the cavities of the internal organs and in the gland ducts and blood vessels. The genes encoding the type II cytokeratins are clustered in a region of chromosome 12q12-q13. Alternative splicing may result in several transcript variants; however, not all variants have been fully described. [provided by RefSeq, Jul 2008]