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 TCTTTACTGGCTTTCATAGCTTTTCTATTTTTTGTCTTCTATTATTTCTCTCTCCCTATATTTTACTACT  
 CGAAGAAAGGCAGAAGAAGTTACAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG224132 representing NM\_004795  
 Red=Cloning site Green=Tags(s)

MPASAPRRRPRPPPSL SLLL VLLGLGRRRLRAEPDGAQTWARF SRPPAPEAAGLFQGTFFPDGFLWAVG  
 SAAYQTEGGWQQHGKGASIWDTFTHHPLAPPGDSRNASLPLGAPSPLQPATGDVADSYNNVFRDTEALR  
 ELGVTHYRFSISWARVLPNGSAGVPNREGLRYRRLLELRELGVQPVVTLYHWDLPQRLQDAYGGWANR  
 ALADHFRDYAELCFRHFGGQVKYWITIDNPYVVAWHGYATGRLAPGIRGSPRLGYLVAHNLLLHAHVWH  
 LYNTSFRPTQGGQVSIALSSHWINPRMTDHSIKECQKSLDFVLGWFAPVFDGDPESMKNNLSSILP  
 DFTESEKKFIKGTADFFALCFGPTLSFQLLDPHMKFRQLEPNLRQLL SWIDLEFNHPQIFIVENGWFVS  
 GTTKRDDAKYMYLKKFIMETLKAIKLDGVDVIGYTAWSLMDGFEWHRGYSIRRGLFYVDFLSQDKMLLP  
 KSSALFYQKLEKNGFPPLPENQPLEGTFPCDFAWGVVDNYIQVDTTLSQFTDLNVYLWDVHHSKRLIKV  
 DGVVTKRKSVCVDFAAIQPQIALLQEMHVTHFRFSLDWALILPLGNQSQVNHTILQYYRCMASELVRVN  
 ITPVVALWQPMAPNQGLPRLARQGAWENPYTALFAEYARLQELGHHVKLWITMNEPYTRNMTYSAG  
 HNLLKAHALAWHYNEKFRHAQNGKISIALQADWIEPACPF SQDKVEAERVLEFDIGWLAEPIFGSGDY  
 PWVMRDWLNQRNFFLLPYFTEDEKLLIQGTFDFLALSHYTTILVDSEKEDPIKYNDYLEVQEMTDITWLN  
 SPSQVAVVPWGLRKVLNWLKFKYGDLPYIISNGIDDGLHAEDDQLRVYVMQNYINEALKAHILDGINLC  
 GYFAYSFNDRTAPRFLYRYAADQFEPKASKHYRKIIDSNGFPGPETLERFCPEEFTVCTECSFFHTRK  
 SLLAFIAFLFFASIIISLIFYYSKKGRRSYK

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_004795

**ORF Size:** 3036 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\\_004795.2](#), [NP\\_004786.2](#)

**RefSeq Size:** 5003 bp

RefSeq ORF: 3039 bp

Locus ID: 9365

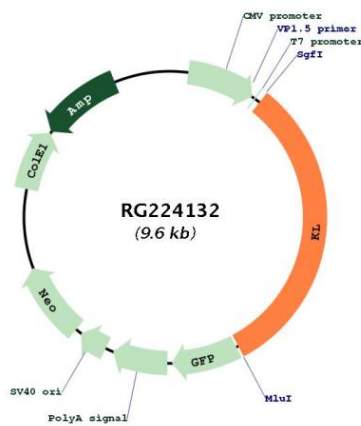
UniProt ID: [Q9UEF7](#)

Cytogenetics: 13q13.1

Protein Families: Secreted Protein, Transmembrane

**Gene Summary:** This gene encodes a type-I membrane protein that is related to beta-glucosidases. Reduced production of this protein has been observed in patients with chronic renal failure (CRF), and this may be one of the factors underlying the degenerative processes (e.g., arteriosclerosis, osteoporosis, and skin atrophy) seen in CRF. Also, mutations within this protein have been associated with ageing and bone loss. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG224132