

## Product datasheet for **RG200444**

### **PDZK1 (NM\_002614) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDZK1 (NM_002614) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDZK1
Synonyms:	CAP70; CLAMP; NHERF-3; NHERF3; PDZD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG200444 representing NM\_002614  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACCTCCACCTTCAACCCCCGAGAATGTAACTGTCCAAGCAAGAAGGGCAAACATATGGCTTCTTCC  
 TCGAATTGAGAAGGACACCGAGGGCCACTGGTCCGGTGGTTGAGAAGTGTAGCCAGCAGAGAAGGC  
 TGGCCTTCAAGATGGAGACAGAGTTCTTAGGATCAATGGTGTCTTTGTGGACAAAGAACAATATGCAG  
 GTTGTGGATCTGGTCAGAAAAGAGTGGGAATTCAGTGACTTTACTAGTTCTGGATGGGGATTCTATGAGA  
 AAGCAGTGAACACGGGTGGACTTGAAGAGTTGGGTCAAAGTCAGAAGGAGCAAGTTTGAGTGATAA  
 TATACTTTCCCTGTGATGAATGGAGGTGTCAAACCTGGACCCAGCCCCGGCTCTGCTATCTCGTGAAG  
 GAAGGAGGCAGCTATGGCTTCTCTGAAAAGTGTCCAAGGTAAAAGGGGGTGTACATGACTGATTA  
 CACCTCAAGGTGTGGCTATGAGAGCTGGAGTTCTGGCTGATGATCACTTGATTGAAGTGAATGGAGAGAA  
 TGTAGAGGATGCCAGCCATGAGGAAGTGGTTGAAAAGGTGAAGAAGTCAGGAAGCCGTGCATGTTCTCTG  
 CTGGTGGACAAAGAACTGACAAGCGTCATGTTGAGCAGAAGATACAATTCAAAAGAGAAACAGCCAGTT  
 TGAACCTGTTACCCACAGCCCCGAATTGTGGAGATGAAGAAAGGAAGCAATGGCTATGGTTTCTATCT  
 GAGGGCAGGCTCAGAACAGAAAGGTCAAATCATCAAGGACATAGATTCTGGAAGTCCAGCAGAGGAGGCT  
 GGCTTGAAGAACAATGATCTGGTAGTTGCTGTCAACGGCAGTCTGTGGAACCCCTGGATCATGACAGTG  
 TGGTAGAAATGATTAGAAAGGGTGGAGATCAGACTTCACTGTTGGTGGTAGACAAAGAGACGGACAACAT  
 GTACAGACTGGCTCATTTTTCTCATTTCTACTATCAAAGTCAAGAACTGCCCAATGGCTCTGTCAAG  
 GAGGCTCCAGCTCCTACTCCACTTCTCTGGAAGTCTCAAGTCCACCAGATACTACAGAGGAAGTAGATC  
 ATAAGCCTAAACTCTGCAGGCTGGCTAAAGGTGAAAATGGCTATGGCTTCACTTAAATGCGATTGCGGG  
 TCTGCCAGGCTCATTATCAAAGAGGTACAGAAGGGCGGTCCTGCTGACTTGGCTGGCTAGAGGATGAG  
 GATGTCATCATTGAAGTGAATGGGTGAATGTGCTAGATGAACCCATGAGAAGGTGGTGGATAGAATCC  
 AGAGCAGTGGGAAGAATGTCACACTTCTAGTCTGTGGAAGAAGGCCTATGATTATTTCCAAGCTAAGAA  
 AATCCCTATTGTTTCTCCCTGGCTGATCCACTTGACACCCCTCCAGATTCTAAAGAAGGAATAGTGGTG  
 GAGTCAAACCATGACTCGCACATGGCAAAGAACGGGCCACAGTACAGCCTCACATTCTTCTCAATT  
 CTGAAGATACAGAGATG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG200444 representing NM\_002614  
 Red=Cloning site Green=Tags(s)

MTSTFNPRECKLSKQEGQNYGFFLRIEKDTEGHLVRVVEKCSPAEKAGLQDGRVLRINGVFVDKEEHMQ  
 VVDLVRKSGNSVTLLVLDGDSYEKAVKTRVDLKELGQSQKEQGLSDNILSPVMNGGVQWTQPRLCYLVK  
 EGGSYGFSLKTVQGKKGVMYTDITPQGVAMRAGVLADDHLIEVNGENVEDASHEEVVEKVKKSGSRVMFL  
 LVDKETDKRHVEQKIQFKRETASLKLPHQPRIVEMKKSNGYGFYLRAGSEQKQGIKIDIDSGSPAEEA  
 GLKNNDLVAVNGESVETLDHDSVEMIRKGGDQTSLLVVDKETDNMYRLAHFSPFLYYQSQELPNGSVK  
 EAPAPTPTSLEVSSPPDTTEEVDHKPKLCRLAKGENGYGFHLNAIRGLPGSFIKEVQKGGPADLAGLEDE  
 DVIIEVNGVNVLDPEYKVVDRIQSSGKNVTLLVCGKKAYDYFQAKKIPIVSSLADPLDTPPDSKEGIVV  
 ESNHDSHMAKERAHSTASHSSNSSEDEEM

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_002614

**ORF Size:** 1557 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\\_002614.4](#)

**RefSeq Size:** 2131 bp

**RefSeq ORF:** 1560 bp

**Locus ID:** 5174

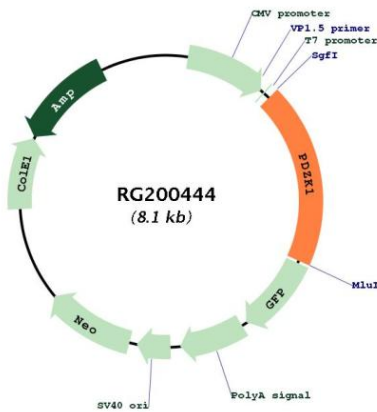
**UniProt ID:** [Q5T2W1](#)

**Cytogenetics:** 1q21.1

**Domains:** PDZ

**Gene Summary:** This gene encodes a PDZ domain-containing scaffolding protein. PDZ domain-containing molecules bind to and mediate the subcellular localization of target proteins. The encoded protein mediates the localization of cell surface proteins and plays a critical role in cholesterol metabolism by regulating the HDL receptor, scavenger receptor class B type 1. Single nucleotide polymorphisms in this gene may be associated with metabolic syndrome, and overexpression of this gene may play a role in drug resistance of multiple myeloma. Pseudogenes of this gene are located on the long arm of chromosome 1. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011]

**Product images:**



Circular map for RG200444