

## Product datasheet for **RG204330**

### Alkaline Phosphatase (ALPPL2) (NM\_031313) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Alkaline Phosphatase (ALPPL2) (NM_031313) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Alkaline Phosphatase
Synonyms:	ALPPL; ALPPL2; GCAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG204330 representing NM\_031313  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACGGGGCCCTGGGTGCTGCTCCTGCTGGCCCTGAGGCTACAGCTCTCCCTGGGCATCATCCCAGTTG  
 AGGAGGAGAACC CGACTTCTGGAACCGCCAGGCAGCCGAGGCCCTGGGTGCCGCCAAGAAGCTGCAGCC  
 TGCACAGACAGCCGCAAGAACCTCATCATCTTCTGGGTGACGGGATGGGGGTGTCTACGGTGACAGCT  
 GCCAGGATCCTAAAAGGGCAGAAGAAGGACAACTGGGGCCTGAGACCTTCTGGCCATGGACCGTTCC  
 CGTACGTGGCTCTGTCCAAGACATACAGTGTAGACAAGCATGTGCCAGACAGTGGAGCCACAGCCACGGC  
 CTACCTGTGCGGGTCAAGGGCAACTCCAGACCATTGGCTTGAGTGCAGCCGCCGCTTTAAACAGTGC  
 AACACGACACGGCAACGAGGTCATCTCCGTGGTGAATCGGGCAAGAAAGCAGGAAAGTCAGTGGGAG  
 TGGTAACCACACACGGGTGCAGCATGCCTCGCCAGCCGGCACCTACGCCACACGGTGAACCGCAACTG  
 GTACTCGGATGCCGACGTGCCTGCCTCGGCCCGCAGGAGGGGTGCCAGGACATCGCCACGACGCTCATC  
 TCCAACATGGACATTGATGTGATCCTAGGTGGAGGCCAAAGTACATGTTTCCCATGGGGACCCAGACC  
 CTGAGTACCCAGATGACTACAGCAAGGTGGGACCAGGCTGGACGGGAAGAATCTGGTGCAGGAATGGCT  
 GGCGAAGCACCAGGGTGCCCGGTACGTGTGGAACCGCACTGAGCTCCTGCAGGCTTCCCTGGACCCGTCT  
 GTGACCCATCTCATGGGTCTCTTTGAGCCTGGAGACATGAAATACGAGATCCACCAGACTCCACACTGG  
 ACCCTCCTGATGGAGATGACAGAGGCTGCCCTGCGCCTGCTGAGCAGGAACCCCGCGGCTTCTTCTCT  
 CTTGTTGAGGGTGGTGCATCGACCATGGTTCATCATGAAAGCAGGGCTTACCGGCACTGACTGAGACG  
 ATCATGTTGACGACGCCATTGAGAGGGCGGGCAGCTCACCAGCAGGAGGACACGCTGAGCCTCGTCA  
 CTCCGACCACTCCACGCTTCTCCTTCGGAGGCTACCCCTGCGAGGGAGCTCCATCTTCGGCTGGC  
 CCCTGGCAAGGCCCGGGACAGGAAGGCCTACACGGTCTCCTATACGAAACGGTCCAGGCTATGTGCTC  
 AAGGACGCGCCCGCCGGATGTTACCGAGAGCGAGAGCGGGAGCCCGAGTATCGGCAGCAGTCAGCAG  
 TGCCCTGGACGGAGAGACCCACGCAGGCGAGGACGTGGCGGTGTTGCGCGCGGGCCGACGGCGCACCT  
 GGTTCACGGCGTGACAGGACAGACCTTCATAGCGCACGTCATGGCCTTCGCCCTGCCTGGAGCCCTAC  
 ACCGCTGCGACCTGGCGCCCCCGCGGCACCACCGACCGCGCACCCGGGGCCGTCCGTGGTCCCCG  
 CGTTGCTCCTCTGCTGGCAGGGACCTTGTGCTGCTGGGGACGGCCACTGCTCCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG204330 representing NM\_031313  
 Red=Cloning site Green=Tags(s)

MQGPWVLLLLGLRLQLSLGIIPVEEENPDFWNRQAAEALGAACKLQPAQTAANKLIIFLDGMGVSTVTA  
 ARILKGQKKDKLGPETFLAMDRFPYVALSKTYSVDKHPDPSGATATAYLCGVKGNFQTIIGLSAAARFNQC  
 NTTRGNEVISVVRNRAKKAGKSVGVTTRVQHASPAGTYAHTVNRNWYSADVPASARQEGCQDIATQLI  
 SNMIDIVILGGGRKYMFPMPGTPDPEYDDYSQGGTRLDGKNLVQEWLAKHQGARYVWNRTELLQASLDPS  
 VTHLMGLFEPGDMKYEIHRDSTLDPSPMEMTEAALRLLSRNPRGFFLFVEGGRIDHGHESRAYRALTET  
 IMFDDAIERAGQLTSEEDTSLVADHSHVFSFGGYPLRGSSIFGLAPGKARDRKAYTVLLYGNPGYVLL  
 KDGARPDVTESESGSPEYRQSAVPLDGETHAGEDVAVFARGPQAHLVHGVQEQTFAHVMAFAACLEPY  
 TACDLAPPAGTTDAAHPGPSVVPALLPLLAGTLLLLGTATAP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_031313

**ORF Size:** 1596 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\\_031313.1](#), [NP\\_112603.1](#)

**RefSeq Size:** 2485 bp

**RefSeq ORF:** 1599 bp

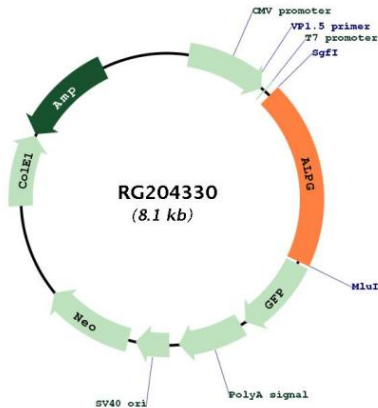
**Locus ID:** 251

**UniProt ID:** [P10696](#)

**Cytogenetics:** 2q37.1

Protein Families:	Druggable Genome
Protein Pathways:	Folate biosynthesis, Metabolic pathways
Gene Summary:	There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney (tissue non-specific). The product of this gene is a membrane bound glycosylated enzyme, localized to testis, thymus and certain germ cell tumors, that is closely related to both the placental and intestinal forms of alkaline phosphatase. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG204330