

Product datasheet for **RG213062**

ATHL1 (PGGHG) (NM_025092) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATHL1 (PGGHG) (NM_025092) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATHL1
Synonyms:	ATHL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG213062 representing NM_025092
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGCTGTGGACACCAGCACCCCCAGACCTGACCCTTGGGAAGGTGAGGAGGCTAGGACGTGGGACTTCC
 TGACAGCGGTGGGCGGCAGCCAGGCTGAGGCTCAGGCCTGCCTCACTGAGGCCCTGCAGCTGCAGGCCAG
 GGGAGCTCTGTATACGGCTCACGCACAGGCCTGGGCCAGCTCTGGGTAGAATGTGGCTTGACGTGGTG
 GGGCCCTGCAGCTGCGCCAGGCCCTGCGTGGCTCCCTCTACTACCTGCTCAGTGCCTGCCAGCCCCA
 AGGCCCCAGGATACATCTGCCATGGCCTCAGTCTGGGGCCTCTCCAATGGGAGCCGTAGGAATGCTA
 CTGGGGCCACGTCTTCTGGGACCAGGACCTCTGGATGTTCCCGAGTATCCTGATGTTCCACCCAGAAGCC
 GCCAGGGCCATCTGGAGTACGCATCCGCACGCTGGACGGGGCCCTGGAGAACGCCAGAACCTGGGCT
 ACCAGGGAGCCAAGTTTGCCTGGGAGAGTGCAGACTCCGGCCTAGAGGTTTGCCTGAGGACATTTACGG
 AGTCCAGGAGTCCACGTCAACGGGGCCGTGGTGTGGCTTCGAGCTGTACTACCATACCCAGGAC
 CTGCAGCTATTTGAGAGGCTGGTGGCTGGGACGTGGTCAGGGCTGTGGCCGAGTTTGGTGCAGTCGTG
 TTGAGTGGAGCCCCAGGGAGGAAAAGTACCACCTGAGGGGAGTCATGTCCCCGACGAGTACCATTACAGG
 GGTCAACAACTCTGTGTACCAACGCTCCTGGTCCAGAACAGCCTGCGCTTTGCTGCTGCCCTGGCCAG
 GACCTGGGTCTTCCCATCCCCAGCCAGTGGCTGGCGGTGGCTGACAAGATCAAGGTACCTTTGACGTGG
 AGCAGAACTTCCACCCGAGTTCGATGGGTATGAGCCTGGAGAGGTGGTGAAGCAGGCAGACGTCGTGCT
 CCTGGGATACCCAGTCCCTTCTCCCTGAGTCTGATGTTGCGAGGAAAATCTGGAGATTTACGAGGCT
 GTGACGTCCCCCAGGGCCCCGCCATGACCTGGAGCATGTTTGTGTGGGCTGGATGGAGCTGAAGGACG
 CAGTGGGGCCCCGGGGCCTCTGGACAGGAGCTTTGCCAACATGGCTGAACCTTCAAGGTGTGGACGGA
 GAATGCAGACGGGTGAGGCGCTGTGAACCTTCTGACAGGCATGGGGGGCTTCTGCAGGCGGTGGTCTTC
 GGTGTCACGGGGTTCAGGGTACCCGAGCGGTGTGACCTTTGACCTGTGTGTGTGTGCGGGATCTCCA
 GAGTGAGCGTCTCCGGCATCTTCTACCAGGGGAACAAGCTCAACTTCTCTTTTCCGAGGACTCCGTGAC
 CGTGGAGGTACAGCTCGAGCAGGGCCCTGGGCTCCTCACCTGGAGGCTGAGCTGTGGCCATCCCAGTCC
 CGGCTCTCCCTGTTGCCAGGACACAAGGTCTCCTTCCCCGCTCGGCTGGCCGGATACAAATGTACCCCC
 CGAAGCTGCCTGGAAGTTCAGCTCCGAGTTCCTGGGAGGACTTTTTCAGATGTAGGGACCCGCTCCA
 GAGCCCCCTCTGGGTACCTGCGTCTCCAGCCCCACCGAGTCACTCACTGTGGACCCTGCCTCTGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG213062 representing NM_025092
 Red=Cloning site Green=Tags(s)

MLWTPAPPDLTLGEGEEARTWDFLTAVGGSQAEQAQCLTEALQLQARGALYTAHAQAWAQLWVECLDVV
 GPLQLRQALRGSLLYLLSALPQPKAPGYICHGLSPGGLSNGSREECYWGHVFDQDLWMFSPILMFHPEA
 ARAILEYRIRTLGALENAQNLYGQAKFAWESADSGLEVCPEDIYGVQEVHVNGAVVLAFLYYHTTQD
 LQLFREAGGWDVVRVAEFWCSRVEWSPREEKYHLRGVMSPEYHSGVNNSVYTNVLVQNSLRFAAALAQ
 DLGLPIPSQWLAVADKIKVPFDVEQNFHPEFDGYEPGEVVKQADVLLGYPVPFSLSPDVRKNLEIYEA
 VTSPQGPAMTWSMFAVGWMLKDAVRARGLLDRSFANMAEPFKVWTENADGSGAVNFLTGMGGFLQAVVF
 GCTGFRVTRAGVTFDPVCLSGISRVSVSGIFYQGNKLNFSFSEDSVTVEVTARAGPWAPHLEAELWPSQS
 RLSLLPGHKVSFPRISAGRIQMSPPKLPSSSSSEFPGRTFSDVRDPLQSPLWVTLGSSSPTESLTVDPASE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_025092

ORF Size: 1680 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_025092.3](#), [NP_079368.2](#)

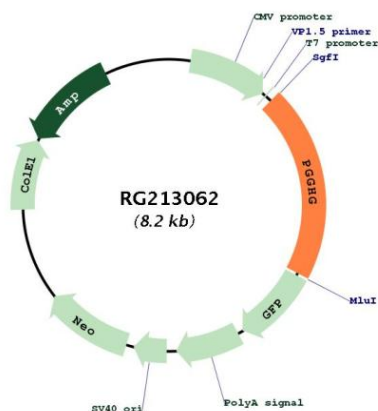
RefSeq Size: 2391 bp

RefSeq ORF: 2214 bp

Locus ID: 80162

UniProt ID: [Q32M88](#)
Cytogenetics: 11p15.5
Domains: Glyco_hydro_65m
Gene Summary: Catalyzes the hydrolysis of glucose from the disaccharide unit linked to hydroxylysine residues of collagen and collagen-like proteins.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG213062