

Product datasheet for **RG226504**

TLK1 (NM_001136554) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLK1 (NM_001136554) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TLK1
Synonyms:	PKU-beta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG226504 representing NM_001136554
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTGTCCAAAGTAGCAGTGGAAAGTTTGGAGGGCCGCCATCTTGGTCCCAGCTCTCCACGTCTCCAA
 CCCCGGGCTCGGCGGCGGCCAGGTCCTGCTGAATCACACGCGCCATCCGGGAGGCCAGGGAAGG
 TGCAATGGATGAGCTTCATAGTCTGGATCCAAGAAGGCAAGAGTTATTGGAAGCTAGATTTACTGGAGTT
 GCAAGTGGGAGCACTGGAAGTACGGCAGTTGCAAGTGGAGCTAAAGCCTCAACAAATAACGAAAGCT
 CTAATCACAGTTTTGGAAGCTTGGGATCTTTAAGTGACAAAGAATCAGAGACACCGGAGAAGAAACAATC
 GGAATCATCCAGGGGAAGAAAGAGAAAAGCAGAAAACCAGAATGAAAGTAGTCAGGGAAGAAAGTATTGGG
 GGACGTGGCCACAAAATTAGCGACTATTTGAATACCAGGGTGGAAATGGCTCAAGTCCAGTAAGAGGCA
 TACCTCCTGCAATCCGTTCTCTCAAAAATCACATTACATTCCACTCCTTCTCATCTGTTCCGACCGAA
 TAGCCCTTCTCTACTGCATTAGCATTGGGGACCACCCTATTGTACAACAAAGCAATTATCCTTTAAA
 ATTATTACAGACTGATCTACAATGCTGAAATTAGCAGCATTAGAAAGTAATAAAATCCAGGACCTGGAAA
 AGAAGGAGGGACGTATAGATGATTTGCTCAGGGCTAACTGTGATCTCAGACGGCAATAGATGAACAACA
 AAAATTACTTGAAAAATACAAAGAACGATTAATAAAGTGCATATCAATGAGCAAGAACTTCTTATTGAA
 AAGAGTACACAAGAAAAGCTGTCAAGCAGAGAGAAGAGTATGCAAGATCGATTACGCCTTGGGCACTTTA
 CAACAGTTAGACATGGCGCTTCATTTACTGAACAATGGACAGATGGTTTTGCATTTGAGAATCTTGTA
 GCAACAAGAAATGGGTGAATCAGCAAAGGGAAGATATTGAAAGGCAAGGAAACTTCTAGCCAAACGAAA
 CCTCCCACAGCTAATAATTCTCAGGCACCCTCTACCAATTCTGAACCAAAACAAAGGAAAAACAAAGCAG
 TCAATGGAGCAGAGAATGATCCCTTTGTTAGACCAAATTTACCACAATGTTGACTTTGGCAGAATATCA
 TGAACAGGAAGAAATTTCAAACCTTAGACTAGGACATCTCAAAAAGGAAGAGGCAGAAATCCAGGCAGAA
 CTTGAACGTTTGGAAAGAGTCAGAAATCTTACATACGTGAGCTGAAAAGAATAAACAATGAAGATAATT
 CACAGTTCAAAGATCACCCAACATTAATGAAAGATATTTACTTTCATCTGCTTGGTAGAGGTGGCTT
 TAGTGAAGTGATAAGGCTTTTGACCTTTATGAACAAAGATATGCTGCTGTGAAGATACATCAGCTTAAT
 AAAAGCTGGAGAGATGAGAAGAAAGAAACTACCACAAACATGCCTGCAGAGAGTATAGAATACACAAAG
 AACTGGATCACCCAGAATAGTTAACTCTATGATTATTTCTCCTGGATACAGATACGTTTTGTACAGT
 GTTAGAATACTGTGAAGGCAATGACTTGGATTTCTATCTGAAGCAACACAAGTTAATGTCAGAGAAAGAA
 GCTCGGTCTATTGTAATGCAGATTGTAATGCACTAAGATATCTCAATGAGATCAAACCCCTATTATAC
 ATTATGATCTTAAGCCAGGAAACATCCTACTGGTAGATGGAACAGCATGTGGTGAATCAAATCACTGA
 TTTTGGTCTGTCCAAGATTATGGATGATGATAGCTATGGTGTAGATGGAATGGATCTAACTCCCAGGGG
 GCAGGCACTTACTGGTATTTACCTCCTGAGTGTTTGTAGTTGGAAAAGAGCCACCAAAGATTTCCAACA
 AGGTTGATGATGGTTCGGTTGGAGTCACTTTCTTTAGTGTCTTTATGGTAGAAAGCCATTTGGTCACAA
 TCAATCTCAACAAGACATTTCTCAAGAAAATACAATATTAAGAGCCACAGAAGTCCAGTTCCTGTAAAA
 CCGGTTGTAAGCAGTGAAGCCAAGGCATTTATAAGACGCTGTTTGGCATATCGAAAAGAAGATCGATTTG
 ATGTGCACCAGCTGGCAAATGACCCATACCTTCTCCCACATGAGAAGATCAAATCTTCAGGAAACCT
 ACACATGGCTGGGCTGACAGCATCCCTACACCCCTTCTTCAAGCATAATTACTTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG226504 representing NM_001136554
Red=Cloning site Green=Tags(s)

```

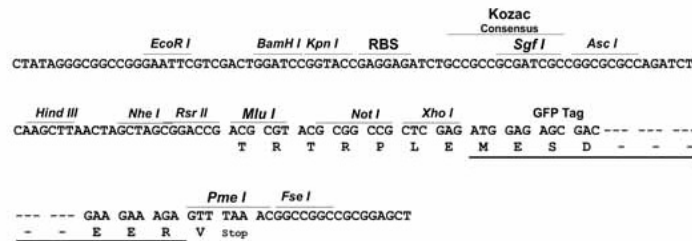
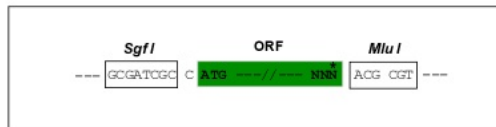
MSVQSSSGSLEGPPSWSQLSTSPTPGSAARLLNHTPPSGRPREGAMDELHSLDPRRQELLEARFTGV
ASGSTGSTGSCSVGAKASTNNNESSNHSGSLGSLSDKESETPEKKQSESSRGRKRKAENQNESSQKSG
GRGHKISDYFEYQGGNGSSPVRGIPPAIRSPQNSHSHSTPSSSVRPNSPPTALAFGDHPIVQPKQLSFK
IIQTDLTMLKLAALSNKIQDLEKKEGRIDDLRANCDLRRQIDEQQKLEKYKERLNKCSMSKLLIE
KSTQEKLSSREKSMQDRLRLGHFTTVRHGASFTQWTDGFAFQNLVKQEQEWVWVQQREDIERQRKLLAKRK
PPTANNSQAPSTNSEPKQRKNKAVNGAENDPFVVRPNLPQLLTLAEYHEQEEIFKLRGLHLLKKEEAEIQAE
LERLERVRNLHIRELKRINNEDNSQFKDHPTLNERYLLHLLGRGGFSEVYKAFDLYEQRYAAVKIHQLN
KSWRDEKKENYHKHACREYRIHKELDHPRIKLVYDFSLDQDFCTVLEYCEGNDLDFYKQHKLMSEKE
ARSIVMQIVNALRYLNEIKPPIIHYDLKPGNILLVDGTACGEIKITDFGLSKIMDDSYGVDGMDLTSQG
AGTYWYLPPECFVVGKEPKKISNKVDVWSVGVIFFOCLYGRKPFGHNQSQQDILQENTILKATEVQFPVK
PVVSSEAKAFIRRCLAYRKEDRFVHQLANDPYLLPHMRRSNSSGNLHMAGLTASPTPPSSSIITY
    
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001136554

ORF Size: 2154 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_001136554.1](#), [NP_001130026.1](#)

RefSeq Size: 5310 bp

RefSeq ORF: 2157 bp

Locus ID: 9874

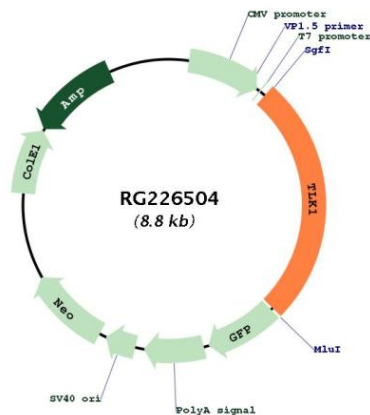
UniProt ID: [Q9UKI8](#)

Cytogenetics: 2q31.1

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: The protein encoded by this gene is a serine/threonine kinase that may be involved in the regulation of chromatin assembly. The encoded protein is only active when it is phosphorylated, and this phosphorylation is cell cycle-dependent, with the maximal activity of this protein coming during S phase. The catalytic activity of this protein is diminished by DNA damage and by blockage of DNA replication. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RG226504