

Product datasheet for **RG218935**

TLK2 (NM_006852) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLK2 (NM_006852) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TLK2
Synonyms:	HsHPK; MRD57; PKU-ALPHA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218935 representing NM_006852
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGGAAGAATTGCATAGCCTGGACCCACGACGGCAGGAATTATTGGAGGCCAGTTTACTGGAGTAG
 GTGTTAGTAAGGGACCCTTAATAGTGAGTCTTCCAACCAGAGCTTGTGCAGCGTCGGATCCTTGAGTGA
 TAAAGAAGTAGAGACTCCCGAGAAAAAGCAGAATGACCAGCGAAATCGGAAAAAGAAAGCTGAACCATAT
 GAACTAGCCAAGGGAAAGGCACTCCTAGGGGACATAAAATTAGTGATTACTTTGAGTTTCTGGGGAA
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 GAAATACAAGGAACGATTAATAGATGTGTGACAAATGAGCAAGAAACTCCTTATAGAAAAGTCAAAACAA
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 ATGGAAGGAAGCCTTTTGGCCATAACCAGTCTCAGCAAGACATCTACAAGAGAATACGATTCTTAAAGC
 TACTGAAGTGCAGTTCGCGCAAAGCCAGTAGTAACACCTGAAGCAAAGGCGTTTATTTCGACGATGCTTG
 GCCTACCGAAAGGAGGCCGATTGATGTCCAGCAGCTGGCCTGTGATCCCTACTTGTTCCTCACATCC
 GAAAGTCAGTCTCTACAAGTAGCCCTGCTGGAGCTGCTATTGCATCAACCTCTGGGGCGTCCAATAACAG
 TTCTTTAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218935 representing NM_006852
Red=Cloning site Green=Tags(s)

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MMEELHSLDPRRQELLEARFTGVGVSKGPLNSESSNQSLCSVGSLSKVEVETPEKKQNDQRNRKRKAEPY
ETSQKGTTPRGHKISDYFEFAGGSAPGTSVPPVARSPPQHLSNPLPRRVEQPLYGLDGSAAKEAT
EEQSALPTLMSVMLAKPRLDTEQLAQRGAGLCTFVSAQQNSPSTGSGNTEHSCSSQKQISIQHRQTQS
DLTIEKISALENSKNSDLEKKEGRIDLLRANCDLRRQIDEQQKMLEKYKERLNRCVTMSKLLIEKSKQ
EKMACRDKSMQDRLRLGHFTTVRHGASFTQWTDGYAFQNLIKQKERINSQREEIERQRKMLAKRPPAM
GQAPPATNEQKQRKSKTNGAENETLTLAEYHEQEEIFKLRGLHGLKKEEAEIQAELERLERVRNLHIRELK
RIHNEDNSQFKDHPTLNDRYLLHLLGRGGFSEVYKAFDLTEQRYVAVKIHQLNKNWRDEKKENYHKHAC
REYRIHKELDHPRIVKLYDYFSLDTSFCTVLEYCEGNDLDFYKQHKLMSEKEARSIIIMQIVNALKYLN
EIKPPIIHVDLPGNILLVNGTACGEIKITDFGLSKIMDDDSYNSVDGMELTSGAGTYWYLPPECFVVG
KEPPKISNKVDVWSVGVIFYQCLYGRKPFQHNQSQDILQENTILKATEVQFPKPVVTPEAKAFIRRCL
AYRKEDRIDVQLACDPYLLPHIRKSVSTSSPAGAAIASTSGASNNSSSN
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006852

ORF Size: 2250 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_006852.6](#)

RefSeq Size: 3616 bp

RefSeq ORF: 2253 bp

Locus ID: 11011

UniProt ID: [Q86UE8](#)

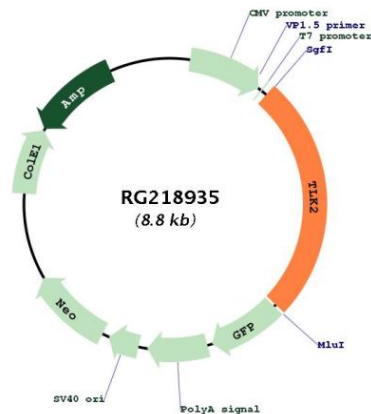
Cytogenetics: 17q23.2

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene encodes a nuclear serine/threonine kinase that was first identified in Arabidopsis. The encoded protein is thought to function in the regulation of chromatin assembly in the S phase of the cell cycle by regulating the levels of a histone H3/H4 chaperone. This protein is associated with double-strand break repair of DNA damage caused by radiation. Pseudogenes of this gene are present on chromosomes 10 and 17. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]

Product images:



Circular map for RG218935