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Product datasheet for MR210263

Tlk1 (NM_172664) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tlk1 (NM_172664) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tlk1
Synonyms:	4930545J15Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR210263 representing NM_172664
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTGTCCAAAGTAGCAGTGGAAGTTTGGAGGGGCCGCCATCTTGGTCCCGGCTCTCCACGTCTCCAA
CCCCGGGCTCGGCGGCGGCGGCCAGGTCCCTGCTGAATCACACGCCGCCATCCGGGAGGCCCAGGGAAGG
TGCAATGGATGAGCTTCACAGTCTGGACCCAAGAAGGCAAGAATTATTGGAAGCAAGATTTACTGGAGTT
GCTACTGGGAGTACTGGGAGTACTGGGAGTTGCAGTGTTGGAGCAAAAGCTTCAACAAATAATGAAAGTT
CTAATCACAGTTTTGGAAGCTTAGGATCTCTAAGTGACAAAGAATCAGAGACACCAGAGAAGAAACAATC
AGAGTCATCCAGGGGAAGAAAGAGAAAAGCAGAAAGTCAGAATGAAAGTAGTCAGGGAAAAAGTATCGGG
GGACGTGGCCATAAGATCAGCGACTATTTTGAATACCAAGGTGGAAATGGCTCGAGTCCAGTAAGAGGCA
TCCCTCCAGCAATCCGTTCTCCGCAGAACTCACACTCACATTCCACTCCTTCCTCATCTGTTCGACCGAA
TAGCCCTTCTCCTACTGCATTAGCTTTCGGGGACCACCCTGTTGTACAACCAAAGCAGTTATCCTTTAAG
ATCACTCAAACTGATCTTACAATGCTGAAATTGGCAGCATTAGAAAGTACTAAAAATCAAGACCTGGAGA
AGAAGGAAGGCCGGATTGATGATCTGCTCAGGGCCAACTGTGATCTCAGGCGGCAAATAGATGATCAACA
GAAATTACTTGAAAAATACAAAGAACGATTAAATAAGTGCATATCTATGAGCAAGAAACTACTTATTGAA
AAGAGTACACAAGAAAAATTGTCTAGCAGAGAAAAGAGTATGCAAGATCGGTTGCGCCTTGGGCACTTTA
CCACAGTTAGACACGGCGCTTCCTTTACAGAACAGTGGACAGATGGTTTTGCATTTCAGAATCTTGTGAA
GCAACAAGAATGGGTGAATCAACAAAGGGAAGACATTGAACGGCAAAGAAAACTTCTAGGCAAACGCAAA
CCTCCCACAGCTAATAATTCTCAGGCACCTGCTACCAATTCTGAAGCCAAGCAAAGAAAGACCAAGGCAG
TCAATGGAGCGGAAAACGATCCCTTTGTTAGGCCAAATTTACCACAACTGCTGACTCTGGCAGAGTATCA
TGAACAAGAGGAAATTTTTAAACTTAGACTAGGACATCTCAAAAAGGAAGAGGCTGAAATCCAGGCGGAA
CTGGAGCGTTTGGAGAGGGTCCGGAACCTTCACATCCGAGAGCTGAAGAGAATAAACAATGAGGATAATT
CACAGTTCAAAGATCATCCAACGTTAAATGAAAGATATTTATTACTTCATCTGCTTGGGAGAGGCGGCTT
TAGTGAGGTCTATAAGGCATTCGACTTGTATGAGCAAAGATACGCTGCTGTGAAGATCCACCAGCTTAAT
AAGAGCTGGAGAGACGAGAAGAAAGAAAACTACCACAAACACGCTTGCCGAGAGTATCGAATACACAAGG
AACTGGACCACCCCAGAATAGTTAAACTCTATGATTACTTCTCCTTGGATACAGATACGTTTTGTACAGT
GCTAGAGTACTGTGAAGGCAATGACTTGGACTTCTACCTGAAGCAGCACAAGTTGATGTCTGAGAAAGAA
GCTCGGTCTATTGTGATGCAGATTGTGAATGCCTTACGCTATCTCAATGAAATCAAACCTCCTATTATAC
ATTATGACCTTAAGCCAGGAAATATCCTTCTGGTAGATGGAACAGCATGTGGAGAAATCAAAATCACTGA
TTTTGGTCTGTCCAAGATTATGGATGACGATAGTTACGGTGTTGATGGGATGGATCTGACTTCCCAGGGG
GCAGGCACTTACTGGTATTTACCTCCTGAGTGCTTTGTAGTTGGAAAAGAGCCACCGAAGATCTCCAACA
AGGTTGACGTGTGGTCAGTTGGGGTCATCTTCTTCCAGTGCCTCTATGGTAGAAAACCATTTGGTCACAA
TCAATCTCAACAAGACATTCTACAGGAAAACACAATACTGAAAGCCACAGAAGTCCAGTTCCCTGTAAAA
CCTGTTGTAAGCAGTGAAGCCAAGGCCTTCATAAGACGCTGTTTGGCTTACCGAAAAGAAGATCGATTTG
ATGTGCACCAGCTGGCAAATGACCCATACCTTCTGCCACACATGAGAAGATCAAATTCTTCAGGAAACTT
ACATATGTCTGGGCTGACAGCAACTCCCACACCTCCTTCTTCAAGCATAATTACTTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>MR210263 representing NM_172664
Red=Cloning site Green=Tags(s)

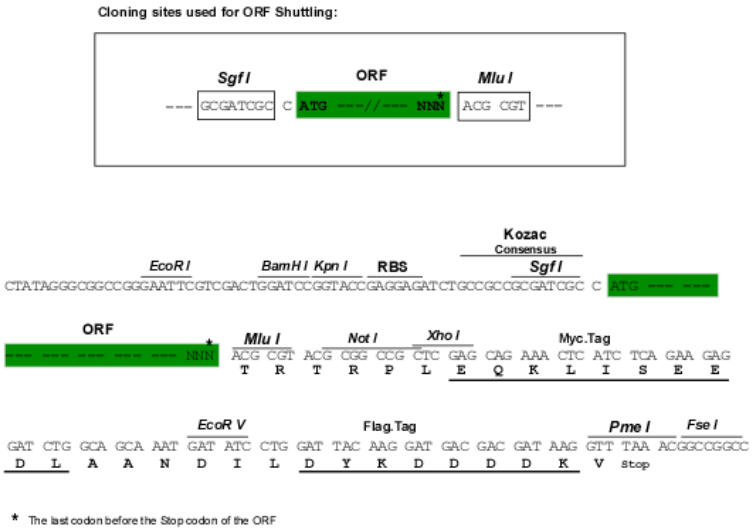
MSVQSSSGSLEGPPSWSRLSTSPTPGSAAAARSLLNHTPPSGRPREGAMDELHSLDPRRQELLEARFTGV
ATGSTGSTGSCSVGAKASTNNESSNHSFGSLGSLSDKESETPEKKQSESSRGRKRKAESQNESSQGKSIG
GRGHKISDYFEYQGGNGSSPVRGIPPAIRSPQNSHSHSTPSSSVRPNSPSPTALAFGDHPVVQPKQLSFK
ITQTDLTMLKLAALESTKNQDLEKKEGRIDDLLRANCDLRRQIDDQQKLLEKYKERLNKCISMSKKLLIE
KSTQEKLSSREKSMQDRLRLGHFTTVRHGASFTEQWTDGFAFQNLVKQQEWVNQQREDIERQRKLLGKRK
PPTANNSQAPATNSEAKQRKTKAVNGAENDPFVRPNLPQLLTLAEYHEQEEIFKLRLGHLKKEEAEIQAE
LERLERVRNLHIRELKRINNEDNSQFKDHPTLNERYLLLHLLGRGGFSEVYKAFDLYEQRYAAVKIHQLN
KSWRDEKKENYHKHACREYRIHKELDHPRIVKLYDYFSLDTDTFCTVLEYCEGNDLDFYLKQHKLMSEKE
ARSIVMQIVNALRYLNEIKPPIIHYDLKPGNILLVDGTACGEIKITDFGLSKIMDDDSYGVDGMDLTSQG
AGTYWYLPPECFVVGKEPPKISNKVDVWSVGVIFFQCLYGRKPFGHNQSQQDILQENTILKATEVQFPVK
PVVSSEAKAFIRRCLAYRKEDRFDVHQLANDPYLLPHMRRSNSSGNLHMSGLTATPTPPSSSIITY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9009_f08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172664

ORF Size: 2298 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.

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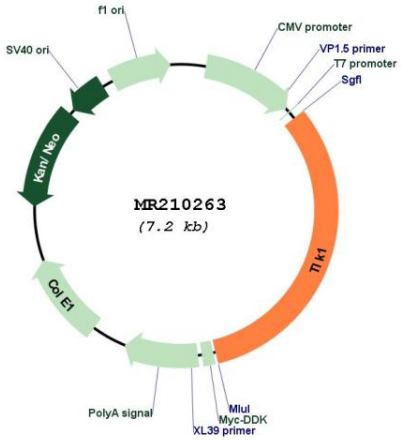
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile 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_172664.3, NP_766252.2
RefSeq Size:	4050 bp
RefSeq ORF:	2301 bp
Locus ID:	228012
UniProt ID:	Q8C0V0
Cytogenetics:	2 C2
MW:	87.1 kDa
Gene Summary:	Rapidly and transiently inhibited by phosphorylation following the generation of DNA double-stranded breaks during S-phase. This is cell cycle checkpoint and ATM-pathway dependent and appears to regulate processes involved in chromatin assembly (By similarity). Isoform 3 protects the cells from the ionizing radiation by facilitating the repair of DSBs. In vitro, phosphorylates histone H3 at 'Ser-10' (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210263

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