

Product datasheet for **RG226993**

LTK (NM_001135685) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | LTK (NM_001135685) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | LTK |
| Synonyms: | TYK1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RG226993 representing NM_001135685
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTGCTGGGACAGCTGCTGGTGTGGTTCGGAGCCGCGGGCGCCATTCTCTGCTCTAGCCCGGGT
 CCCAGGAGACTTTTCTGCGGTCCCTCGCCCTGCCGCTGGCAAGTCCCAGCCCCGGGACCCGAAAGTCAG
 CGCCCCGCTAGTATCTTGGAGCCAGCCTCCCCGCTGAATTCTCCGGCACCCGAGGGTCTTGGCTGTTT
 TCTACCTGCGGGGCCAGCGGCCGCATGGGCCACACAGACACAATGTGACGGGGCGTACCGGGGACCA
 GCGTGGTGGTACCGTGGGGGCCCGGGCAGCTGAGAGCGTGCAGCTGTGGCGCTGCCGGGCCCTGG
 CCAGTATCTGATCTCAGCCTACGGAGCCGCGGGCGCAAGGCGCAAGAACCACCTGTCGCGGGCGCAT
 GCGCTCTCGTCTCAGCAATCTTCTCCCTCGGTCTCGGGAGTCGCTGTACATCCTGGTGGGGCAGCAGG
 GAGAGGACGCCTGTCCCGAGGTAGCCCGAGAGCCAGCTCGTCTGCCTCGGGAGTCTCGAGCCGTTGA
 AGAGCACGCGGCATGGATGGGAGCGAAGGGTCCCGGGTCCGCGCGCTGGGCGGAGGTGGCGGGGT
 GCGGGGGCGCCACCTAGTTTTCCGGTGCAGCTGGCGAGCTGGAACCGTTGCTGGTGGCGGCCGGAG
 GCGGGCGTCCGGCCTACCTGAGGCCGCGGGACCGAGGCCGACTCAGGCCTCCCCGAGAAACTGGAGAA
 CCGCTCGGAGGCGCCCGGAGCGCGGGAGAGCGGGCGGAGGGGGCGGACGCTTCAGAGACTGACAA
 CTCTGGGCTGATGGGGAAGATGGAGTATCCTTCATACACCCAGCAGCGAGCTTCTCCTGCAGCCTCTGG
 CAGTCAACGAGAACACGGAGAGGTAGAGATCCGAAGGCACCTCAACTGCAGTCACTGCCCTTTGAGAGA
 CTGCCAATGGCAGGCAGAGCTCCAGCTGGTGAATGCCTGTGCCAGAAGGCATGGAGCTAGCTGTGGAT
 AACCTCACCTGCATGGACCTGCACAAGCCCCAGGCCCTCTGGTCTGATGGTGGCTGTGGTGGCAACT
 CAACACTGAGCCTCCTTATGGTGTGTGGGTCTGATTCTGGGTGGGGCTTGGCCCGGCCAGTCCCTGGC
 CTCTGCCACAGGTGTACCGAGGTTTCCCGAGCAATGTTACTCTGCTCAGACCCCTGCCAGAACTCTGC
 TCGCCTCAGGATGAGCTGGATTTCTCATGGAGGCCCTCATCATCAGCAAGTTTCGCCATCAGAATTG
 TGCGGTGTGTGGGCTCAGCCTCAGGGCCACCCCTCGCCTCATTCTGCTGGAAGTATGCTGGAGGGGA
 CATGAAGAGTTTCTGAGGCACAGTCGGCCACACCTGGGCCAGCCATCACCTCTGGTATGCGGGACCTG
 CTGCAACTGGCCAGGACATAGCCAGGGCTGCCACTACCTGGAGGAAAATCACTTCATCCACAGGGATA
 TTGCCGCCGGAAGTGCCTGCTGAGCTGCGCTGGACCCAGCCAGTGGCCAAGATTGGGGACTTTGGGAT
 GGCACGAGATATCTACCGGCCAGTTATTACCGCAGGGGGACCGGGCCTTGCTCCAGTCAAGTGGATG
 CCCCAGAGGCCCTCCTGGAGGGCATCTCACATCCAAGACAGATTCTGGTCTTTGGGGTGTCTCT
 GGGAGATCTTCTCACTGGGCTACATGCCCTATCCTGGGCGACCAACCAGGAGGTGCTGGACTTCGTCGT
 TGGAGGAGGCCGATGGACCCTCTAGGGGCTGCCAGGGCCTGTGTACCGCATCATGACCCAGTGTGG
 CAGCACGAGCCTGAGCTCCGCCCTAGCTTTGCCAGCATCTGGAGCGTCTGCAGTACTGCACTCAGGACC
 CGGATGTGCTGAATCACTCCTGCCAATGGAGCTGGGGCCACCCAGAGGAGGAAGGGACTTCTGGGCT
 GGGGAACAGATCTTTGGAGTGCCTAAGACCCCCACAGCCCCAGGAACTGAGTCCAGAGAAGTTGAAAAGC
 TGGGGAGGTAGCCCTCTGGCCCTGGCTGTCTCTGGCCTCAAGCCCTCAAATCCAGGGGCTCCAAC
 CTCAGAACCTTTGGAATCCCACTTATCGCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226993 representing NM_001135685
Red=Cloning site Green=Tags(s)

MGCWGQLLVWFGAAGAILCSSPGSQETFLRSSPLPLASPSRDPKVSAPPSILEPASPLNSPGTEGSWLF
 STCGASGRHGPTQTQCDGAYAGTSVVVTVGAAGQLRGVQLWRVPVGPQYLI SAYGAAGGKAKNHL SRAH
 GV FVSAIFSLGLGESLYILVGQQGEDACPGGSPESQLVCLGESRAVEEHAAMDGSEGVPGSRRWAGGGGG
 GGGATYVFRVRAGELEPLLVAAGGGGRAYLRPRDRGRTQASPEKLENRSEAPGSGGRGGAAGGDASETNDN
 LWADGEDGVSF IHPSSSELFQLAVTENHGEVEIRRHLNCSHCPLRDCQWQAEQLAECLCEGMELAVD
 NVTCMDLHKPPGPLVLMVAVVATSTLLMVCVGLILGGAWPGVPLASATRCHRGFPSQCYSAQTLPELC
 SPQDELDFLMEALIISKFRHQNIIVRCVGLSLRATPRLILLELMSGGDMKSFLRHSRPHLGQPSPLVMRDL
 LQLAQDIAQGCHYLEENHF IHRDIAARNCLLSCAGPSRVAKIGDFGMARDIYRASYYRRGDRALLPVKWM
 PPEAFLEGIFTSKTDSWSFGVLLWEIFSLGYMPYPGRNTQEVLDVFVGGGRMDPPRGCPGPVYRIMTQCW
 QHEPELRPSFASILERLQYCTQDPDVLNSLLPMELGPTPEEEGTSGLGNRSLECLRPPQPQELSPEKLS
 WGGSPGLPWLSSGLKPLKSRGLQPQNLWNPTYRS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001135685

ORF Size: 2202 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_001135685.2](#)

RefSeq Size: 2753 bp

RefSeq ORF: 2205 bp

Locus ID: 4058

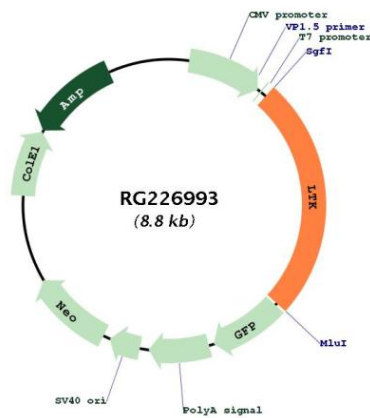
UniProt ID: [P29376](#)

Cytogenetics: 15q15.1

Protein Families: Druggable Genome, Protein Kinase, Transmembrane

Gene Summary: The protein encoded by this gene is a member of the ros/insulin receptor family of tyrosine kinases. Tyrosine-specific phosphorylation of proteins is a key to the control of diverse pathways leading to cell growth and differentiation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RG226993