

## Product datasheet for **MR220805**

### Stk10 (NM\_009288) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stk10 (NM_009288) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stk10
Synonyms:	Gek1; L; Lok; mKIAA4026
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR220805 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTTTCGCCAATTTCCGCCGATCTTGCGGTTATCCACCTTCGAGAAGAGAAAGTCCCGTGAATATG  
 AGCACGTCGCCCGGACCTGGACCCCAACGATGTATGGGAGATCGTGGCGAGCTGGGAGACGGCGCCTT  
 CGGCAAAGTCTACAAGGCCAAAAACAAGGAGACCGGTGCCCTGGCAGCAGCCAAAGTCATAGAGACCAAG  
 AGCGAGGAGGAGCTGGAGGACTACATCGTGGAGATAGAGATCCTGGCCACCTGTGACCACCCGTATATCG  
 TGAAGCTCCTGGGGCCTATTACTATGATGGGAAGCTCTGGATCATGATTGAGTTCTGCCCTGGGGGAGC  
 TGTGGATGCCATCATGCTGGAGCTGGATCGAGGCCTCACTGAGCCCAGATTAGGTCGTATGCCGCCAG  
 ATGTTGGAGGCTCTCAACTTCTGCACGGCAAGAGGATCATCCACCGAGACCTGAAAGCTGGCAACGTGC  
 TTATGACCCTTGAGGGGACATCAGGCTGGCTGATTTTGGTGTGTCTGCCAAGAATCTGAAAACCTGCA  
 AAAGCGAGACTCCTTCATAGGGACCTTACTGGATGGCCCTGAGGTGGTGTGTGTGAAACCATGAAG  
 GACGCCCCCTATGACTACAAGGCTGACATCTGGTCCTTGGGCATCACGCTGATCGAGATGGCGCAGATCG  
 AGCCCCACACCAGGCTCAACCCCATGCGGGTCTGTCAAGATTGCCAAGTCGGACCCCTCTACCCCT  
 GCTTACACCCCTCAAGTGGTCTGTGGAGTTCGAGACTTCTGAAGATAGCCTTGGATAAGAACCAGAA  
 ACCCGGCCAGTGTGCACAGCTGTGCAGCATCCCTTCGTGAGCAGAGTACCAGCAATAAGGCTCTTC  
 GGGAGCTGGTGGCCGAGGCAAAGGCGGAGGTAATGGAGGAGATTGAGGATGGCAGGGAGGACGGAGAAGA  
 GGAGGATGCTGTGGATGCTGTTCCGCCCTGGTCAACCACACTCAGGACTCTGCCAATGTAACCTAGCCA  
 AGCCTCGACTCCAACAAGCTTCTCCAGGATCTTCCACCCCTGCCTCCAGCCAGCCTCAGGAGCCTG  
 TGAACGGGCCCTGTAGCCAACCTCTGGGGATGGACCCCTCAAACCACAGCCCTCGAGATGGGCTCTC  
 CAAGAATGACAATGACTTAAAGGTGCCTGTTCCCTCCGGAAGTCCCGGCCACTGTCATGGATGCCAGA  
 ATTCAGATGGATGAAGAGAAACAATCCCTGACCAGGATGAGAACCAGGTCCTGCAGCCAGCAAGTCCC  
 AAAAGGCCAACAGAGCCGGCCTAACAGCAGTGCCTGGAGACTTGGGTGGTGGGCTCTGACCAACGG  
 TGGCCTGGAACCTCCAGCTCTGTCACTCCAAGCATTCTAAGAGGGCTCGGACTGTAGCAATCTGTCT  
 ACCTCAGAGAGCATGGACTATGGCACCTCCCTGTCTGCTGACCTGTCACTGAACAAAGAAACGGGCTCAT  
 TGTCTCTCAAGGGCTCAAACTGCACAATAAGACCCTGAAACGGACCCCGCGTTTGTGGTGGATGGTGT  
 GGAGGTGAGCATACCACCTCAAGATCATCAGCGAGGATGAGAAGAAAGACGAGGAGATGAGATTTCTC  
 AGGCGCCAGGAGCTCCGAGAGCTTCGGCTTCTGCAGAAAGAAGAACATCGGAACCAGACGAGCTGAGCA  
 GCAAGCAGAGCTGCAGCTGGAGCAGATGCACAAACGTTTTGAACAAGAAATCAACGCCAAGAAGAAATT  
 CTATGACGTGGAGCTAGAAAACCTGGAGCGGCAGCAGAAGCAGCAGGTAGAGAAGATGGAGCAGGACCAC  
 AGCGTGGCCCGCAAAGAGGAGGCAAGCGGATCCGCCTGGAGCAGGATCGAGACTACGCCAAGTTCCAAG  
 AGCAACTCAAGCAAAATGAAGAAGGAGGTGAAGAGTGAAGTTGAGAAACTGCCCGGCAGCAGCGGAAGGA  
 GAGCATGAAGCAGAAGATGGAGGAACACTCTCAGAAGAAACAGCGGCTGGACCGGACTTTGTAGCCAAG  
 CAGAAGGAGGACCTGGAGCTGGCCATGAGGAAGCTCACACGGAAACAGGCGGAGATCTGTGACAAGG  
 AGCGAGATTGCCCTAGCAAGAAGCAGGAGCTCCTCCGAGACCGTGAGGCGGCCCTGTGGGAGATGGAGGA  
 GCACCAGTTGCAGGAGCGACATCAGCTGGTGAAGCAGCAACTGAAGGACCAGTACTTCTGCAGCGGCAT  
 GACCTGTGCGTAAGCATGAGAAGGAGCGGGAACAGATGCAGCGCTACAACCAGCGCATGATGGAGCAGC  
 TGAAGGTGAGACAGCAACAGGAGAAGGCGCGGCTACCCAAGATCCAGAGGAGCGACGGAAGACGCGCAT  
 GGCCATGTACAAGAAGAGCCTGCACATCAACGGTGCGGCAGTGCCTCTGAGCAGCGGAGAAGATCAAG  
 CAGTTCTCCAGCAGGAGGAGAAGAGGCAAGGCGGAGAGGCTGCAGCAGCAGCAGAAACAGGAGAACC  
 AGATGCGAGACATGGTGGCGCAGTGTGAAAGCAACATGAGCGAGCTACAGCAGCTGCAGAATGAAAAGTG  
 TCATCTGTTGGTAGAGCATGAAACCCAGAAGCTGAAGGCCCTGGATGAGAGCCACAACCAGAGCCTGAAG  
 GAATGGCGAGACAAGCTTCGGCCACGAAAAAGGCCCTGGAAGAGGATTTGAACCAGAAGAAGCGGGAAC  
 AGGAAATGTTCTCAAATTAAGCGAGGAGGCAGAGCCAGACCCACCCAGCAAGCCAGCAACTT  
 CTCCCTACAGCTCTGGGGATGCTTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR220805 protein sequence  
Red=Cloning site Green=Tags(s)

```
MAFANFRRLRLSTFEKRKSREYEHVRRDLDPNDVWEIVGELGDGAFGKVVYKAKNKETGALAAAKVIETK
SEEELEDYIIVEIEILATCDHPYIIVKLLGAYYYDGKLVIMIEFCPGGAVDAIMLELDRGLTEPQIQVVCRO
MLEALNFLHGKRIIHRDLKAGNVLMLEGDIRLADFGVSAKNLKTQKRDSFIGTPYWMPEVVLCEMTK
DAPYDYKADIWSLGITLIEMAQIEPPHELNPVRVLLKIAKSDPPTLLTPSKWSVEFRDFLKIALDKNPE
TRPSAAQLLQHPFVSRVTSNKALRELVAEAKAEVMEIEIDGREDGEEEDAVIDAVPLVNHTQDSANVTQP
SLDSNKLLQDSSSTPLPPSQPQEPVNGPCSQPSGDGPLQTTSPADGLSKNDNDLKVPVPLRKSRPLSMDAR
IQMDEEKQIPDQDENPSPAASKSQKANQSRPNSSALETLGGEALNNGGLELPSSVTPSHSKRASDCSNLS
TSESMDYGTSLADSLNKETGSLSLKGSKLHNKTLKRTRRFVVDGVEVSIITTSKIISEDEKKDEEMRFL
RRQELRELRLLQKEEHRNQTQLSSKHELQLEQMHRFEQEINAKKKFYDVELENLERQQKQVVEKMEQDH
SVRRKEEAKRIRLEQDRDYAKFQEQLKQMKKEVKSEVEKLPRQQRKESMKQKMEEHSQKQRLDRDFVAK
QKEDLELAMRKLTTENRREICDKERDCLSKKQELLRDREAALWEMEEHLQERHQLVKQQLKDQYFLQRH
DLLRKHEKEREQMQRYNQRMMEQLKVRQQEKARLPKIQRSDGKTRMAMYKSLHINGAGSASEQREKIK
QFSQQEKRQKAERLQQQKHENQMRDMVAQCESNMSLQQLQNEKCHLLVEHETQKALKALDESHNQSLK
EWRDKLRPRKALEEDLNQKKREQEMFFKLSEEAEPRPTTPSKASNFFPYSSGDAS
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:

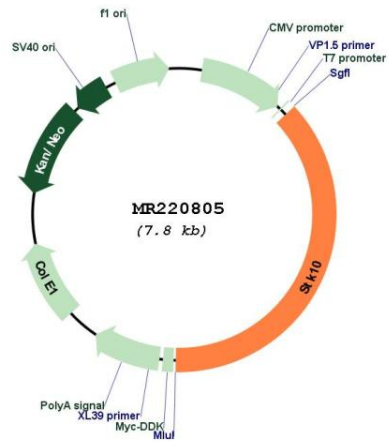


\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009288  
**ORF Size:** 2901 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_009288.2</a> , <a href="#">NP_033314.2</a>
<b>RefSeq Size:</b>	5082 bp
<b>RefSeq ORF:</b>	2901 bp
<b>Locus ID:</b>	20868
<b>UniProt ID:</b>	<a href="#">O55098</a>
<b>Cytogenetics:</b>	11 A4
<b>MW:</b>	111.9 kDa
<b>Gene Summary:</b>	This gene encodes a member of the Ste20 family of serine/threonine protein kinases, and is similar to several known polo-like kinase kinases. Mice deficient for this gene product are viable, but exhibit altered integrin-mediated lymphocyte adhesion characteristics. The orthologous gene product in humans can associate with and phosphorylate polo-like kinase 1, and overexpression of a kinase-dead version of the protein interferes with normal cell cycle progression. [provided by RefSeq, Jul 2008]

Product images:



Circular map for MR220805