

## Product datasheet for SC316980

### ALPK1 (NM\_001102406) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ALPK1 (NM_001102406) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALPK1
Synonyms:	8430410J10Rik; LAK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC316980 representing NM_001102406. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAATAATCAAAAAGTGGTAGCTGTGCTACTGCAAGAGTGCAAGCAAGTCTGGATCAGCTCTTGTG
GAAGCGCCAGATGTGTGCGAAGAGGACAAGAGCGAGGACCAGCGCTGCAGAGCTTTACTCCCCAGCGAG
TTAAGGACCTGATCCAGGAGGCAAAAGGAAATGAAGTGGCCCTTCGTGCCTGAAAAGTGGCAGTACAAA
CAAGCCGTGGGCCAGAGGACAAAACAACCTGAAGGATGTGATTGGCGCCGGTTCAGCAGTTACTG
GCGTCCCTGAGGGCCTCCATCCTCGCTCGGACTGTGCGGCTGCGCGGCTATTGTGTTCTTGGTGGAC
CGGTTCTGTATGGGCTCGACGTCTCTGAAAACCTTCTGCAGGTCGCCAAAGGTCTCCACAAGTTGCAG
CCAGCCACGCCAATTGCCCGCAGGTGGTTATTGCCAAAGCCGAATCTCCGTGAACTCAGGAAAACCTT
TTAAAAGCAGAGTATATTCTGAGCAGTCTAATAAGCAACAATGGAGCAACGGGTACCTGGCTGTACAGA
AATGAAAGTGACAAGGTCTGGTGCAGTCGGTCTGTATACAGATCAGAGGGCAGATTCTGCAAAAAGCTG
GGGATGTGGTACGAAGCAGCAGAGTTAATATGGGCCTCCATTGTAGGATATTTGGCACTTCTCAGCCG
GATAAAAAGGGCCTCTCCACGTCGCTAGGTACTGCGCAGACATCTTTGTTTCCATGAGCAAGAACGAT
TATGAAAAGTTTAAAAACAATCCACAAATTAATTTGAGCCTGTGAAGGAGTTTGACCACCATTTGCTG
TCCGCTGCAGAAGCCTGCAAGCTGGCAGCTGCCTTCAGTGCCTATACGCCGCTCTTCGTGCTCACAGCT
GTGAATATCCGTGGCACGTGTTTATTGTCTACAGTGTCAAAAGTACTGTCCTCCAGAATTGAAAAAC
TTACATCTGTGTGAAGCCAAAGAGGCCTTTGAGATTGGCCTCCTACCAAGAGAGATGATGAGCCTGTT
ACTGAAAAACAGGAGCTTACAGCTTTGTCAAAGCTGCTTTCCGGTCTCACCACAGTGCACAGAAGGCTC
CATGGGGAGACAGGGACGGTCCATGCAGCAAGTCAAGTCTGTAAGGAAGCAATGGGGAAGCTGTACAAT
TTCAGCACTTCTCCAGAAGTCAAGGACAGAGAAGCTCTGTCTCAAGAAGTTATGTCTGTGATTGCCAG
GTGAAGGAACATTTACAAGTTCAAAGCTTCTCAAATGTAGATGACAGATCTTATGTTCCCGAGAGTTTC
GAGTGCAGGTTGGATAAACTTATCTTGCATGGGCAAGGGGATTTCAAAAAATCCTTGACACCTATTCA
CAGCACCATACTTCGGTGTGTGAAGTATTTGAAAGTGATTGTGGAACAACAAAAATGAACAGAAGAT
GCAAAAAACAGGAGTCTGCATCACTGCTCTAAAAACAGAAATAAAAAACATAGATACTGTGAGTACT
```



[View online »](#)

CAAGAAAAGCCACATTGTCAAAGAGACACAGGAATATCTTCTCCCTAATGGGTAAAGATGTTTCAGAGG  
 GAACTCAGAAGGGGAGGAAGGAGAACTGGACCCATTCTGATGCATTTTCGAGTCTCCTTGGATCAAGAT  
 GTGGAGACTGAGACTGAGCCATCGGACTACAGCAATGGTGGAGGAGCTGTTTTCAACAAGTCTCTGAGT  
 GGCAGCCAGACTTCCAGTGTGGAGCAACTTATCAGGGTTTAGTTCTCTGCAAGCTGGGAGGAAGTG  
 AATTATCACGTTGACGACAGGTGAGCCAGAAAAGAGCCTGGCAAAGAACATCTGGTGGACACTCAGTGT  
 TCCACTGCCTTGTCTGAGGAGCTAGAGAATGACAGGGAAGGCAGAGCTATGCATTCATTGCATTCACAG  
 CTTTCATGATCTCTCTTCAGGAACCAACAATGACAATTTGGAGCCTTCTCAAAATCAGCCACAGCAA  
 CAGATGCCCTTGACACCCTTCTCGCCTCATAATACCCCAGGCATTTTCTTGGCCCTGGTGCAGGGCTT  
 CTAGAAGGAGCTCCAGAAGGTATCCAGGAAGTCAGAAATATGGGACCCAGAAATACTTCTGCTCACTCC  
 AGACCCTCATATCGTTCTGCTTCTTGGTCTTCTGATTCTGGTAGGCCAAGAATATGGGCACACATCCT  
 TCAGTCCAAAAAGAAGACCTTTGAAATAATTGTTGAGTTTCCAGAAACCAACTGCGATGTCAAAGAC  
 AGGCAGGGGAAAGAGCAGGGAGAAGAAATAGTGAAAGAGGCGCAGGCCCTACATTTAAAGCTAGTCCC  
 TCCTGGGTTGACCCAGAAGGAGAAACAGCAGAAAGCACTGAAGATGCACCCTTAGACTTTCACAGGGTC  
 CTGCACAATTCTCTGGGAAACATTTCCATGCTGCCATGTAGCTCCTTACCCCTAATTGGCTGTTCAA  
 AATCCTGACTCCAGAAAAGTGGTGGCCAGTGCAGAGCAGGGCATCGACCCTGATGCCTCCACAGTG  
 GATGAGGAGGGGCAACTGCTCGACAGCATGGATGTTCCCTGCACAAATGGGCACGGCTCTCATAGACTG  
 TGCACTTCTGAGACAGCCGCTGGTCAGAGGGCGGAGACCCCAATTCCTCTGTAAGCGGTAAACATCCTC  
 TTCCCTGTCTCAGCGAGGACTGCACTACCACAGAGGAAGGAAATCAGCCTGAAACATGCTAAACTGC  
 AGCCAGAACTCCAGCTCATCCTCAGTGTGGTGGCTGAAATCACCTGCATTTTCCAGTGGTCTTCTGAG  
 GGGGACAGCCCTTGGTCTATCTGAATTCAGTGGGAGTCTTGGGTTTCATTGCCGGGAAAGATGAGG  
 AAAGAGATCCTTGAGGCTCGCACCTTGCACCTGATGACTTTGAAAAGCTGTTGGCAGGAGTGAGGCAT  
 GATTGGCTGTTTCAGAGACTAGAGAATACGGGGTTTTTAAGCCAGTCAACTCCACCGAGCACATAGT  
 GCTCTTTTGTAAAATATTCAAAAAAATCTGAAGTGTGGACGGCCAGGAAACTATTGCTATTTGGGG  
 GACTACTTGACTGTGAAGAAAAAAGGCAGACAAAGAAATGCTTTTTGGGTTTCATCATCTTCATCAAGAA  
 GAAATCTGGGGAGGTATGTTGGGAAAGACTATAAGGAGCAGAAGGGGCTCTGGCACCACTTCACTGAT  
 GTGGAGCGACAGATGACCGCACAGCACTATGTGACAGAATTTAACAAGAGACTCTATGAACAAAACATT  
 CCCACCCAGATATTCTACATCCCATCCACAATACTACTGATTTTAGAGGACAAGACAATAAAGGGATGT  
 ATCAGTGTGGAGCCTTACATACTGGGAGAAATTTGAAAATGTCAAATAACACGAAAGTGGTAAAAACA  
 GAATACAAAGCCACAGAATATGGCTTGGCCTATGGCCATTTTCTTATGAGTTTTCTAATCATAGAGAT  
 GTTGTGGTCGATTTACAAGTTGGGTAAACGGTAATGAAAAGGACTCATCTACCTCACAGATCCCCAG  
 ATTCACCTCGTTGATCAGAAAGTTTTCACTACCAATTTTGGAAAGAGAGGAATTTTTACTTCTTTAAT  
 AACCAGCATGTGGAATGTAATGAAATCTGCCATCGTCTTTCTTTGACTAGACCTCAATGGAGAAACCA  
 TGCACATAG  
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

**Restriction Sites:**

SgfI-MluI

**Plasmid Map:**

**ACCN:**

NM\_001102406

**Insert Size:**

3735 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:**

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

<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>	<u><a href="#">NM_001102406.1</a></u>
<b>RefSeq Size:</b>	5389 bp
<b>RefSeq ORF:</b>	3735 bp
<b>Locus ID:</b>	80216
<b>UniProt ID:</b>	<u><a href="#">Q96QP1</a></u>
<b>Cytogenetics:</b>	4q25
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>MW:</b>	138.9 kDa
<b>Gene Summary:</b>	<p>This gene encodes an alpha kinase. Mice which were homozygous for disrupted copies of this gene exhibited coordination defects (PMID: 21208416). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region compared to variant 1. Variants 1 and 2 encode the same protein (isoform 1).</p>