

## Product datasheet for SC313140

### STK19 (NM\_004197) Human Untagged Clone

#### Product data:

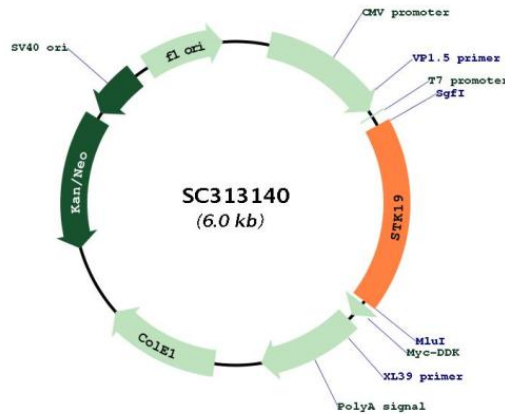
Product Type:	Expression Plasmids
Product Name:	STK19 (NM_004197) Human Untagged Clone
Tag:	Tag Free
Symbol:	STK19
Synonyms:	D6S60; D6S60E; G11; HLA-RP1; RP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC313140 representing NM_004197. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAAAAGTGGTTTTCTGCTTTCGATGATGCAATCATTACGCGACAGTGGCGGGCAAACCCCTCCCGG
GGCGGGGAGGTGTGAGCTTACGAAGGAGGTTGACACCAACGTGGCCACCGGCGCCCTCCACGCCGC
CAACGAGTCCCCGGCGTGCCTGCCCTTGGAGGGAGCCAATCCGCGCCGGCGTGGGGCCCGCCTGGC
GGAGGTGATGCTGGAGGGACGCCGGGAGACCGTACGTACTGCTCTGCGCCGGAAGACCCTATTTTC
AGTTCTCTTCCCTCCATTCTACCCCTTCCCCGGTACCATAAAATCCCGGATATGAGCTGGAAGAGG
CATCACCTGATCCCGGAGACCTTTGGAGTTAAGAGGCGGCGGAAGCGAGGCCTGTGGAGTCGGATCCT
CTTCGGGGTGGAGCAGGTCGGCGCGCGCGGTGTCTCAGAACTCATGCAGCTGTCCCGCGAGGCCTG
TTTGAGGACGCGCTGCCGCCATCGTGCTGAGGAGCCAGGTGTACAGCCTTGTGCCTGACAGGACCGTG
GCCGACCGGCAGCTGAAGGAGCTTCAAGAGCAGGGGAGATCAGAATCGTCCAGCTGGGCTTCGACTTG
GATGCCCATGGAATTATCTTCACTGAGGACTACAGGACCAGAGTCCTCAAGGCCTGTGATGGCCGACCG
TATGCTGGGCGAGTGCAGAAATTTCTAGCTTCACTTCCAGCCTGTGGGGACCTTAGTTTCCAGCAG
GACCAATGACACAGACCTTTGGCTTCAAGGACTCAGAAATCACGCATCTGGTGAATGCTGGAGTCTC
ACCGTCCGAGATGCTGGGAGCTGGTGGCTAGCTGTGCCTGGAGCTGGGAGATTCAAGTACTTTGTT
AAAGGGCCGCGGCGCTGTCTAGCATGGTCCGGAAGCAAGTACCGGAACTGCTCCTATCAGAGCTC
CTGGGCGGCGGCGCCTGTCTGGTGGCGCTTGGCCTCACCTACCATGTGCACGACCTCATTGGGGCC
CAGCTAGTGGACTGCATCTCTACCACTTCAAGAACCTCCTCCGCTGCCAGAGACATGA
ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCGCGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_004197

**Insert Size:** 1095 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.

**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\\_004197.1](#)

**RefSeq Size:** 1620 bp

**RefSeq ORF:** 1095 bp

**Locus ID:** 8859

UniProt ID: [P49842](#)

Cytogenetics: 6p21.33

Protein Families: Druggable Genome, Protein Kinase

MW: 40.5 kDa

**Gene Summary:** This gene encodes a serine/threonine kinase which localizes predominantly to the nucleus. Its specific function is unknown; it is possible that phosphorylation of this protein is involved in transcriptional regulation. This gene localizes to the major histocompatibility complex (MHC) class III region on chromosome 6 and expresses two transcript variants. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) uses an alternate splice site in the coding region, compared to variant 2. It encodes isoform 1 which is shorter compared to isoform 2. Although isoforms 1 and 2 differ in the kinase domain, it appears that there is no difference in kinase activity between isoforms 1 and 2.