

## Product datasheet for **RG207086**

### **SPHK1 (NM\_182965) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SPHK1 (NM_182965) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SPHK1
Synonyms:	SPHK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG207086 representing NM\_182965  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGTCCGCTCAAGTTCTGGGATTTTACGCAGCTGGACTCCCCTCCCCCTGGCAGCCCCAGGGGTCCAG  
 CGCCCGCAGGGAATGACGCCGGTCTCTACAGCCACGGCTCCGGCGGGGAAGGCGAGCCCCACAGCCG  
 GCCCTGCGACGCCCGCTGGGCAGCACCGATAAGGAGCTGAAGGAGGAGCCGCCACCGGCAGCGCC  
 CCCACAGCGCCAGGGACCCCTGGCAGCGGGAGCCGCGGGTTCGAGGTTATGGATCCAGCGGGCGGCC  
 GGGCGTCTCCCGCGCCCTGCCGCTGCTGGTCTGCTGAACCCGCGCGGGCAAGGCAAGGCCTT  
 GCAGCTCTCCGGAGTACGTGCAGCCCCTTTGGCTGAGGCTGAAATCTCCTTCACGCTGATGCTCACT  
 GAGCGCGGAACACGCGGGGAGCTGGTGCCTCGGAGGAGCTGGGCCGCTGGGACGCTCTGGTGGTCA  
 TGTCTGGAGACGGCTGATGCACGAGGTGGTGAACGGGCTCATGGAGCGGCTGACTGGGAGACCCAT  
 CCAGAAGCCCCTGTGTAGCCTCCAGCAGGCTCTGGCAACGCGTGGCAGCTTCTTGAACCATTATGCT  
 GGCTATGAGCAGGTACCAATGAAGACCTCTGACCAACTGCACGCTATTGCTGTGCCGCCGGCTGCTGT  
 CACCCATGAACCTGCTGTCTCTGCACACGGCTTCGGGGCTGCGCCTTCTCTGTGCTCAGCCTGGCCTG  
 GGGCTTATTGCTGATGTGGACCTAGAGAGTGAGAAGTATCGGCGTCTGGGGGAGATGCGCTTCACTCTG  
 GGCACCTTCTGCGTCTGGCAGCCCTGCGCACCTACCGCGCCGACTGGCCTACCTCCCTGTAGGAAGAG  
 TGGGTTCCAAGACACCTGCCTCCCCGTTGGTCCAGCAGGGCCCGGTAGATGCACACCTTGTGCCACT  
 GGAGGACCCAGTCCCTCTCACTGGACAGTGGTGGCCGACGAGGACTTTGTGCTAGTCTGGCACTGCTG  
 CACTCGCACCTGGGCAGTGAGATGTTTGGTGCACCCATGGGCCGCTGTGCAGCTGGCGTCATGCATCTGT  
 TCTACGTGCGGGCGGAGTGTCTCGTGCATGCTGCTGCGCCTTCTCTGGCCATGGAGAAGGCAAGGCA  
 TATGGAGTATGAATGCCCTACTTGGTATATGTGCCCGTGGTTCGCTTCCGCTTGGAGCCCAAGGATGGG  
 AAAGGTGTGTTTGCAGTGGATGGGAATTGATGGTTAGCGAGGCCGTGCAGGGCCAGGTGCACCCAACT  
 ACTTCTGGATGGTCAAGGTTGCGTGGAGCCCCGCCAGCTGGAAGCCCAAGCAGATGCCACCGCCAGA  
 AGAGCCCTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG207086 representing NM\_182965  
 Red=Cloning site Green=Tags(s)

MSAQLVGLFRSWTPLPLAAPRGPAAAGNDAGAPTATAPGGEGEPHSRPCDARLGSTDKELKAGAAATGSA  
 PTAPGTPWQREPRVEVMDPAGGPRGVLPRPCRVLLNPRGGKALQLFRSHVQPLLAEEISFTLMLT  
 ERRNHARELVRSEELGRWDALVMSGDGLMHEVVNGLMERPDWETAIQKPLCSLPAGSGNALAASLNHYA  
 GYEQVTNEDLLTNCTLLLCRRLSPMNLLSLHTASGLRFLSVLSLAWGFIADVLESEKYRRLGEMRFTL  
 GTFLRLAALRTYRGLAYLPVGRVGSKTPASPVVQQGPVDAHLVPLEEPVPSHWTVPDEDFVLVLL  
 HSHLGSEMFAAPMGRCAAGVMHLFYVRAGVSRAMLLRFLAMEKGRHMEYECPYLYVVPVVAFRLEPKDG  
 KGVFAVDGELMVSEAVQGVHPNYFWMVSGVEPPPSWKPQMPPEEPL

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



RefSeq: [NM\\_182965.1, NP\\_892010.1](#)

RefSeq Size: 2174 bp

RefSeq ORF: 1413 bp

Locus ID: 8877

UniProt ID: [Q9NYA1](#)

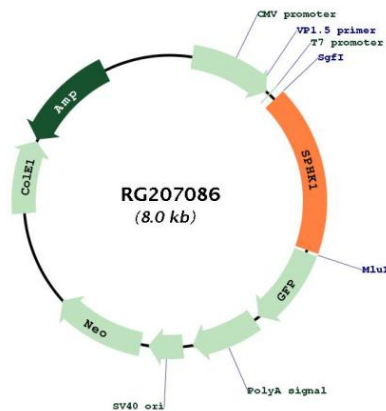
Cytogenetics: 17q25.1

Protein Families: Druggable Genome

Protein Pathways: Calcium signaling pathway, Fc gamma R-mediated phagocytosis, Metabolic pathways, Sphingolipid metabolism, VEGF signaling pathway

**Gene Summary:** The protein encoded by this gene catalyzes the phosphorylation of sphingosine to form sphingosine-1-phosphate (S1P), a lipid mediator with both intra- and extracellular functions. Intracellularly, S1P regulates proliferation and survival, and extracellularly, it is a ligand for cell surface G protein-coupled receptors. This protein, and its product S1P, play a key role in TNF-alpha signaling and the NF-kappa-B activation pathway important in inflammatory, antiapoptotic, and immune processes. Phosphorylation of this protein alters its catalytic activity and promotes its translocation to the plasma membrane. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2017]

### Product images:



Circular map for RG207086