

Product datasheet for **RC205259**

STCH (HSPA13) (NM_006948) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STCH (HSPA13) (NM_006948) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STCH
Synonyms:	STCH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC205259 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGCCAGAGAGATGACGATCTTAGGATCGGCTGTTTTACTCTCCTGTTGGCCGGCTATTTGGCACAAC
 AGTATTTACCATTGCCTACTCTAAAGTGATTGGTATTGATCTTGGCACCACTATTGTTCTGTTGGGGT
 GTTTTTCTGGCACAGGAAAAGTAAAGGTGATCCAGATGAAAATGGGCATATCAGCATACCCAGCATG
 GTGTCTTTTACTGACAATGATGTATATGTGGGATATGAAAGCGTAGAGCTGGCAGATTCAAATCCTCAAA
 ACACAATATATGATGCCAAAAGATTCATAGGCAAGATTTTACCGCAGAAGAGTTGGAGGCTGAAATTGG
 CAGATACCCATTTAAGGTTTTAAACAAAATGGAATGGTTGAGTTTTCTGTGACAAGTAATGAGACCATC
 ACAGTGTCCCAGAATATGTTGGCTCTCGACTATTGTTGAAGTTAAAGGAAATGGCAGAGGCATATCTTG
 GAATGCCAGTTGCCAATGCTGTCATTTCTGTACCAGCAGAATTTGATCTAAACAGAGAAATCAACAAT
 TGAAGCTGCTAACCTTGCAAGACTGAAGATTTTGAGGGTAATAAATGAACCCACAGCAGCAGCTATGGCC
 TATGGTCTCCACAAGGCTGACGCTTCCACGCTTGGTGATAGACTTGGGCGGAGGAACTCTAGATGTGT
 CTTTACTGAATAAACAAGGAGGGATGTTTCTAACCCGAGCAATGTCTGGAACAATAAACTTGGAGGACA
 GGACTTCAATCAGAGATTGCTTCAGTACTTATATAACAGATCTATCAACATATGGCTTCGTGCCTCT
 AGGAAAGAGGAAATCCACAGATTGAGACAAGCTGTGGAATGGTCAAAATTAATCTGACTCTTCATCAAT
 CTGCTCAGTTGTCAGTATTACTAACGGTGGAGGAGCAGGACAGGAAGGAACCTCACAGTAGTGACACTGA
 ACTGCCAAAAGACAACTTTCTCAGCAGATGACCATCGCGTGAACAGTGGGTTTGGACGTGGCCTTTCT
 GATAAGAAAAGTGAGAAAAGTCAGGTTTTATTTGAAACAGAAATATCACGGAACTCTTTGATACCTTA
 ATGAAGACCTCTTTCAGAAAATCTGGTACCCATTGAGCAAGTATTGAAAGAAGGCCACCTGGAAAAGAC
 TGAGATTGATGAGGTGGTTTTAGTTGGGGCTCCACTCGTATTCCTCGGATCCGTCAGTCATTCAAGAG
 TTCTTTGGAAGATCCCAACACATCTGTAGACCTGACCTAGCAGTAGTAACGGGAGTGCTATCCAAG
 CAGGGATTGATGGAGGCTTTGGCTCTCCAAGTCAGTGCTTTAGAAATCCCAATAAGCATTTACAAAA
 AACCAACTCAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205259 protein sequence
 Red=Cloning site Green=Tags(s)

MAREMTILGSAVLTLLLAGYLAQQYLPLTPKVIIGIDLGTTYCSVGVFPPGTGKVKVIPDENGHISIPSM
 VSFTDNDVYVGYESVELADSNPQNTIYDAKRFIGKIFTAELEAEIGRYPFKVLNKGMEVFSVTSNETI
 TVSPEYVGSRLLLKLKEMAEAYLGMPVANAVISVPAEFDLKQRNSTIEAANLAGLKILRVINEPTAAMA
 YGLHKADVHVLVIDLGGGTLDVSLNKGGMFLTRAMSGNNKLGQDFNQRLQYLYKQIYQTYGFVPS
 RKEEIHRLRQAVEMVKLNLTLHQAQLSVLLTVEEQDRKEPHSSDTELPKDKLSSADHRVNSGFRGLS
 DKKSGESQVLFETEISRKLFDLNLNEDLFQKILVPIQQVLKEGHLEKTEIDEVVLVGGSTRIPRIRQVIQE
 FFGKDPNTSVDPDLAVVTGVAIQAGIDGGFWPLQVSALEIPNKLHQLKTNFN

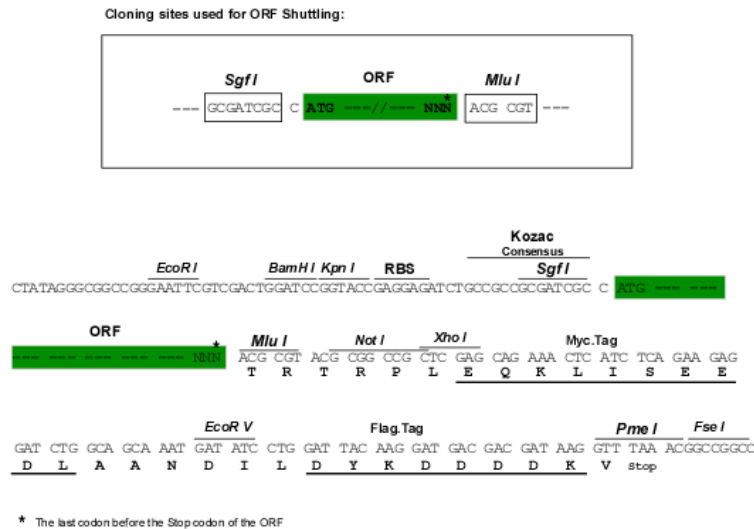
TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6028_g12.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_006948

ORF Size: 1413 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_006948.3](#)

RefSeq Size: 4001 bp

RefSeq ORF: 1416 bp

Locus ID: 6782

UniProt ID: [P48723](#)

Cytogenetics: 21q11.2

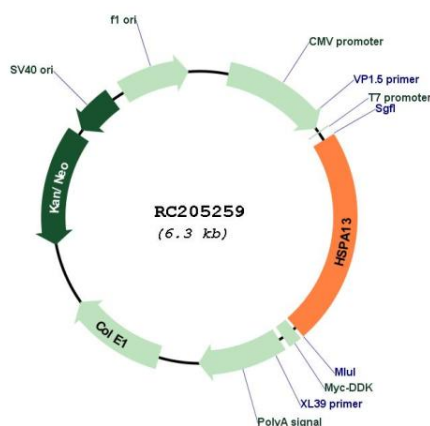
Domains: HSP70

Protein Families: Transmembrane

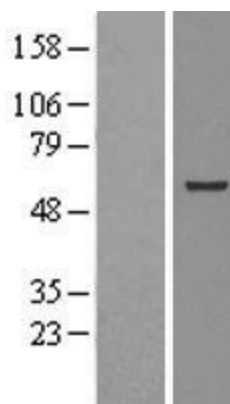
MW: 52 kDa

Gene Summary: The protein encoded by this gene is a member of the heat shock protein 70 family and is found associated with microsomes. Members of this protein family play a role in the processing of cytosolic and secretory proteins, as well as in the removal of denatured or incorrectly-folded proteins. The encoded protein contains an ATPase domain and has been shown to associate with a ubiquitin-like protein. [provided by RefSeq, Jul 2008]

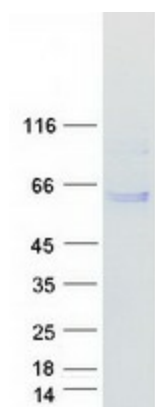
Product images:



Circular map for RC205259



Western blot validation of overexpression lysate (Cat# [LY402066]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205259 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HSPA13 protein (Cat# [TP305259]). The protein was produced from HEK293T cells transfected with HSPA13 cDNA clone (Cat# RC205259) using MegaTran 2.0 (Cat# [TT210002]).