

## Product datasheet for RC217815

### STARD13 (NM\_052851) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STARD13 (NM_052851) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STARD13
Synonyms:	ARHGAP37; DLC2; GT650; LINC00464
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217815 representing NM_052851 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACTTGATGTGAACTTCCAAAGGAAAAAGGGTGACGACTCCGATGAGGAAGATCTTTGTATCAGCA  
ACAAATGGACTTTCCAAAGAACCAGTCGCAGGTGGTCTCGTGTGGACGACCTCTACACGCTGCTCCCTCG  
AGGAGACAGAAATGGGTACCGGGAGGCACGGGGATGAGGAACACGACCAGCAGTGAGAGCGTCTCACA  
GACCTGAGCGAGCCTGAGGTCTGCTCCATTACAGCGAAAGCAGTGGAGGCAGCGACAGTGCAGCCAGC  
CGGGCCAGTGCTGTACAGACAACCCGGTCATGCTGGATGCCCCACTCGTCAGCAGCAGCCTCCACAGCC  
CCCCAGAGATGTCTCAACCACCCCTTCCACCCCAAGAAATGAGAAGCCACGAGGGCTAGGGCCAAATCA  
TTTTTGAAACGCATGAAACACTCCGAGGGAAGGGAGCCACGGGAGGCATAAGGGGTCTGGCGGACAG  
GTGGCCTGGTGATCAGTGGGCCATGTTGCAGCAGGAGCCAGAGTCCCTTAAGGCTATGCAGTGCATCCA  
AATACCAATGGAGATCTCCAGAATTCGCCGCCACCTGCCTGCAGAAAAGGGCTCCCATGCTCTGGCAAG  
TCGAGTGGCGAGAGCAGCCCGTCCGAGCACAGCAGCAGCGGGGTGAGCACGCCCTGCCTGAAGGAACGCA  
AGTGCCACGAGGCCAACAAAGCGCGGGGGCATGTACTTGGAGGACCTAGATGTGCTGGCGGGGACAGCACT  
GCCGGATGCAGGGGACCAAGCCGATGCATGAATTTCACTCCCAAGAGAATTTGGTGGTGCATATTCCC  
AAGGATCACAACCAGGAACATTTCCCAAGGCATTTCTATTGAAAGCCTCTCTCCACAGATAGTAGCA  
ATGGGGTTAATTGGAGGACCGGTAGCATCTCCCTGGGCAGAGAGCAGGTCCCTGGTGCCAGGGAGCCCG  
GCTCATGGCGTCTGCCACAGAGCCAGCCGAGTCAGTATCTATGACAATGTCCCTGGCTCCCATCTGTAT  
GCCAGCACAGGAGATCTTTGGACTTGGAGAAAGATGACCTTTTCCCTCACTTGGATGACATTCTGCAGC  
ATGTCAATGGGCTCCAAGAGGTAGTCGATGACTGGTCCAAAGATGTCTTGCCTGAACTGCAAACTCATGA  
TACATTGGTTGGGGAACCTGGCTTATCCACCTTCCATCTCTAATCAGATCACCTTAGATTTTGAAGGT  
AACTCTGTCTCAGAAGGTCCGACGACACCCAGTGTGGAAAGAGATGTAACATCTCTTAATGAATCTG  
AGCCTCCTGGGGTCAGAGACAGGAGGGATTCTGGTGTAGGGCCCTCTGACCAGGCCAAACAGGGGACT  
CCGATGGAACAGTTTCCAGCTGTGCACCAGCCCGGCCGGCCAGCATCGCCACATCAGCAGCCAG



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ACGGCCAGCCAGCTGAGCCTGCTCCAGCGCTTCTCACTGCTCCGCTCACGGCCATCATGGAGAAGCACT  
 CCATGTCCAACAAGCACGGCTGGACATGGTCAGTTCCAAAGTTCATGAAGAGGATGAAAGTTCGCCACTA  
 CAAAGACAAGGCTGTCTTTGGCGTTCCTCTCATAGTCCACGTCCAAGAACGGGACAGCCCTGCCTCAA  
 AGTATTCAGCAAGCACTGAGATATCTACGCAGCAACTGCCTCGATCAGGTGGGTCTTTTTCGAAATCAG  
 GAGTGAAGTCTCGAATCCATGCCCTTCGCCAAATGAATGAAAACCTCCCTGAGAACGTCAACTATGAAGA  
 CCAGTCTGCTTATGATGTGGCGGATATGGTGAACAGTTCCTCCGGGACCTCCCTGAGCCTCTTTTCACC  
 AACAAAGCTCAGTGAGACCTTTCCATATCTATCAGTATGTCTCCAAGAGCAGCGGCTGCAGGCCGTGC  
 AGGCTGCCATCCTGCTACTGGCCGATGAGAACAGGGAGGTCTGCAGACGCTCTTGTGTTTCTGAACGA  
 CGTCGTCAACTTGGTGGAGAGAATCAGATGACGCCCATGAACCTGGCAGTGTGTCTGGCCCCCTCCCTC  
 TTTTCATCTTAATTTATTGAAGAAAGAAAGCTCTCCACGAGTCATACAGAAGAAATATGCCACTGGGAAGC  
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 CAATACAGATCTTCTTTCAAAAAGGTGGGCGACGGGAACCCGCTGAAGCTGTGGAAGGCTTCTGTGGAG  
 GTGGAAGCACCCCTCAGTGGTCTGAACCGCTGCTGAGAGAGCGCCACTGTGGGACAGGACTTTG  
 TGCAGTGAAGGTTGTGGAACCTTAGACAGGCAACAGAGATCTACCAGTATGTCTGAACAGCATGGC  
 TCCCCATCTTCCAGAGACTTTGTGTTCTCAGGACCTGGAAAACGATTTGCCCAAAGGAATGTGTACC  
 CTGGTGTCCCTCTCCGTGGAGCATGAGGAAGCCAGCTCCTGGTGGTGTGCGAGCAGTGGTGTGGACT  
 CGCAGTACTTGATAGAACCGTGTGGCTCTGGCAAGTCAAGACTGACTCACATCTGCAGGATAGACCTGAA  
 AGGTCACTCCCGAGAATGGTACAGCAAAGGCTTTGGACATCTGTGTGCAGCAGAAGTTGCCAGGATTAGA  
 AACTCTTCCAGCCCTCATTGCTGAGGGCCAGAACTAAAATC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC217815 representing NM\_052851  
 Red=Cloning site Green=Tags(s)

MKLDVNFQRKKGDDSDDEEDLCISNKWTFQRTSRRWSRVDDLTYLLPRGDRNGSPGGTGMRNTTSSESVL  
 DLSEPEVCSIHSESSGSDRSQPGQCCTDNPVMLDAPLVSSSLPQPPRDVLNHPFHPKNEKPTRARAKS  
 FLKRMETLRGKGAHGRHKSGRTGGLVISGPMLQQEPESEFKAMQCIQIPNGDLQNSPPPACRKLPCSGK  
 SSGESSPSEHSSSGVSTPCLKERKCHEANKRGGMYLEDLDVLAGTALPDAGDQSRMHEFHQSQENLVVHIP  
 KDHKPGTFPKALSIESLSPTDSSNGVNWRGTSISLGREQVPGAREPRLMASCHRASRVSIYDNVPGSHLY  
 ASTGDLLEKDDLPHLDDILQHVNLQEVVDDWSKDVLPELQTHDTLVGEPGLSTFPSPNQITLDFEG  
 NSVSEGRTPSDVERDVTSLNESEPPGVRDRRDSGVGASLTRPNRRLRWNSFQLSHQPRPAPASPHISSQ  
 TASQLSLLQRFSLRLTAIMEKHSMSNKHGWTWSVPKFMKRMKVPDYKDKAVFGVPLIVHVQRTGQPLPQ  
 SIQQALRYLRSNCLDQVGLFRKSGVKSRIHALRQMNENFPENVNYEDQSAVDVADMVKQFFRDLEPLFT  
 NKLSETFLHIYQYVSKEQRLQAVQAAIILLADENREVLQTLCLFLNDVVNLVEENQMPMNLAVCLAPSL  
 FHLNLLKKESSPRVIQKKYATGKPDQKDLNENLAAAQGLAHMIMECDRLFVPHELVAQSRNSYVEAEIH  
 VPTLEELGTQLEESGATFHTYLNHLIQGLQKEAKEKFKGWVTCSSDNTDLAFKKVGDGNPLKLWASVE  
 VEAPPSVVLNRVLRERHLWDEFVQWKVETLDRQTEIYQYVLSMAPHPSRDFVVLRTWKTDLPKGMCT  
 LVSLSVEHEEAQLLGGVRAVVMDSQYLIEPCGSGKSRLTHICRIDLKGHSPWYSKGFHGLCAAQVARIR  
 NSFQPLIAEGPETKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_052851

**ORF Size:** 2985 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.

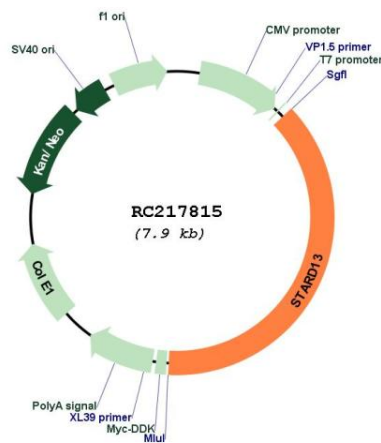
**RefSeq:** [NM\\_052851.3](#)

**RefSeq Size:** 5866 bp

**RefSeq ORF:** 2988 bp  
**Locus ID:** 90627  
**UniProt ID:** Q9Y3M8  
**Cytogenetics:** 13q13.1-q13.2  
**Domains:** RhoGAP, START  
**MW:** 111.2 kDa

**Gene Summary:** This gene encodes a protein which contains an N-terminal sterile alpha motif (SAM) for protein-protein interactions, followed by an ATP/GTP-binding motif, a GTPase-activating protein (GAP) domain, and a C-terminal STAR-related lipid transfer (START) domain. It may be involved in regulation of cytoskeletal reorganization, cell proliferation, and cell motility, and acts as a tumor suppressor in hepatoma cells. The gene is located in a region of chromosome 13 that is associated with loss of heterozygosity in hepatocellular carcinomas. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Aug 2011]

### Product images:



Circular map for RC217815