

## Product datasheet for **RC234649**

### STARD13 (NM\_001243474) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STARD13 (NM_001243474) 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)



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ORF Nucleotide  
Sequence:

>RC234649 representing NM\_001243474  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAAACTTGATGTGAACCTTCCAAAGAAAAAGGGTGACGACTCCGATGAGGAAGATCTTTGTATCAGCA  
ACAAATGGACTTTCCAAAGAACCAGTCGCAGGTGGTCTCGTGTGGACACCTCTACACGCTGCTCCCTCG  
AGGAGACAGAAATGGGTACCGGGAGGCACGGGGATGAGGAACACGACCAGCAGTGAGAGCGTCCTCACA  
GACCTGAGCGAGCCTGAGGTCTGCTCCATTACAGCGAAAGCAGTGGAGGCAGCGACAGTCGCAGCCAGC  
CGGGCCAGTGCTGTACAGACAACCCGGTCATGCTGGATGCCCCACTCGTCAGCAGCAGCCTCCCACAGCC  
CCCCAGAGATGTCCTCAACCACCCTTCCACCCCAAGAATGAGAAGCCCACGAGGGCTAGGGCCAAATCA  
TTTTTGAACGCATGGAAACACTCCGAGGAAGGGAGCCACGGGAGGCATAAGGGGTCTGGGCGGACAG  
GTGGCCTGGTGATCAGTGGGCCATGTTGCAGCAGGAGCCAGAGTCTTTAAGGCTATGCAGTGCATCCA  
AATACCAATGGAGATCTCCAGAATTCGCCGCCACCTGCCTGCAGAAAAGGGCTCCCATGCTCTGGCAAG  
TCGAGTGGCGAGAGCAGCCCGTCGGAGCACAGCAGCAGCGGGGTGAGCAGCCCTGCCTGAAGGAACGCA  
AGTGCCACGAGGCCAACAGCGCGGGGGCATGTAATTGGAGGACCTAGATGTGCTGGCGGGGACAGCACT  
GCCGGATGCAGGGGACCAAAGCCGATGTCATGAATTTCACTCCCAAGAGAATTTGGTGGTGCATATTTCC  
AAGGATCACAACCCAGGAACATTTCCCAAGGCACCTTTCTATTGAAAGCCTCTCTCCACAGATAGTAGCA  
ATGGGGTTAATTGGAGGACCGGTAGCATCTCCCTGGGCAGAGAGCAGGTCCCTGGTGCCAGGGAGCCCCG  
GCTCATGGCGTCTGCCACAGAGCCAGCCGAGTCAGTATCTATGACAATGTCCTGGCTCCCATCTGTAT  
GCCAGCACAGGAGATCTTTTGGACTTGGAGAAAGATGACCTTTTCCCTCACTTGGATGACATTCTGCAGC  
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CCATGTCCAACAAGCAGGCTGGACATGGTCAGTTCCAAAGTTCATGAAGAGGATGAAAGTTCCCGACTA  
CAAAGACAAGGCTGTCTTTGGCGTCTCTCATAGTCCACGTCCAAGAAGCGGGACAGCCCTGCCTCAA  
AGTATTCAGCAAGCACTGAGATATCTACGAGCAACTGCCTCGATCAGGTGGGTCTTTTCGAAATCAG  
GAGTGAAGTCTCGAATCCATGCCCTTCGCCAAATGAATGAAAACCTCCCTGAGAAGCTCAACTATGAAGA  
CCAGTCTGCTTATGATGTGGCGGATATGGTGAACAGTCTTCCGGGACCTCCCTGAGCCTCTTTTACC  
ACAAGCTCAGTGAACCTTTCTCCATATCTATCAGTGAAGTGGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234649 representing NM\_001243474  
Red=Cloning site Green=Tags(s)

```

MKLDVNFQRKKGDDSDDEEDLCISNKWTFQRTSRRWSRVDDL YTL LPRGDRNGSPGGTGMRNTTSSSEVL T
DLSEPEVCSIHSESSGGSDRSQPGQCCTDNPVMLDAPLVSSSLPQPPRDV LNHFPFKNEKPTRARAKS
FLKRMETLRGKGAHGRHKSGRTGGLV ISG PMLQQEPE SFKAMQCIQIPNGDLQNSPPPACRKGLPCSGK
SSGESSPSEHSSSGVSTPCLKERKCHEANKRGGMYLEDLDVLAGTALPDAGDQSRMHEFHSQENLVVHIP
KDHKPGTFPKALSIESLSPTDSSNGVNWRTGSI SLGREQVPGAREPRLMASCHRASRVSIYDNVPGSHLY
ASTGDL LDLEKDDLPHLDDILQHVNGLQEVVDDWSKDVLP ELQTHDTLVGEPGLSTFPSPNQITLDFEG
NSVSEGRTPSDVERDVTSLNESEPPGVRDRRDSGVGASL TRPNRRLRWNSFQLSHQPRPAPASPHISSQ
TASQLSLLQRF SLLRLTAIMEKHSMSNKHGWTWSVPKFMKRMKVPDYKDKAVFGVPLIVHVQRTGQPLPQ
SIQQALRYLRSNCLDQVGLFRKSGVKSR IHALRQMNFENFENVNVEDQSAYDVADMVKQFFRDLPEPLFT
NKLSETFLHIYQCKWK
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001243474

**ORF Size:** 1938 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\\_001243474.1](#), [NP\\_001230403.1](#)

**RefSeq Size:** 2877 bp

**RefSeq ORF:** 1941 bp

**Locus ID:** 90627

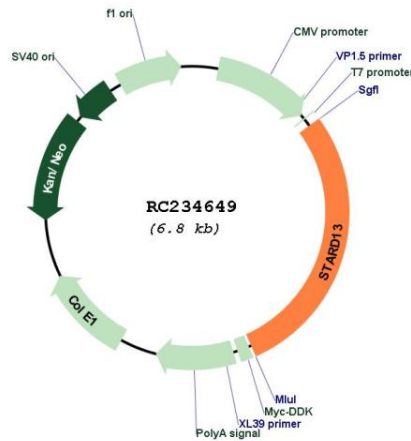
**UniProt ID:** [Q9Y3M8](#)

**Cytogenetics:** 13q13.1-q13.2

**MW:** 72.3 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 RC234649