

Product datasheet for RC214456

STARD13 (NM_178007) Human Tagged ORF Clone

Product data:

| | |
|--------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | STARD13 (NM_178007) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | STARD13 |
| Synonyms: | ARHGAP37; DLC2; GT650; LINC00464 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| ORF Nucleotide Sequence: | >RC214456 representing NM_178007 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGAACCTCCTCAGTTCCTCATGCAAACGTTAACCAGGCCCTTTGTGGTGCTTGGTGCTGCGCT
GGTGCAGAGAATGCAAAGACACTGTCTGTGGTGGGAAACAGAAAAGCAGAGTGAACCACACATTCACGCG
CCGGGAAATTGAGGCAAAGAAGCATGTGACTGGCTCCGTGCTGCCGGGTCCCGCAATACGCTCAGTTA
TATGAGGATTCACAATTTCCCATCAACATTGTGGCTGTCAAGAATGATCATGATTTTCTTAAAAAGGACC
TTGTAGAACCTCTTGCAGACGACTAAATACGTTGAACAAGTGTCCCTCAATGAAACTTGATGTGAACTT
CCAAAGGAAAAAGGGTGACGACTCCGATGAGGAAGATCTTTGTATCAGCAACAAATGGACTTTCCAAAGA
ACCAGTCGCAGGTGGTCTCGTGTGGACGACCTCTACACGCTGCTCCCTCGAGGAGACAGAAATGGGTAC
CGGGAGGCACGGGGATGAGGAACACGACCAGCAGTGAGAGCGTCCCTCACAGACCTGAGCGAGCCTGAGGT
CTGCTCCATTACAGCGAAAGCAGTGGAGGCAGCGACAGTCCGAGCCAGCCGGCCAGTGTGTACAGAC
AACCCGGTCATGCTGGATGCCCACTCGTCAGCAGCAGCCTCCACAGCCCCCAGAGATGTCTCAACC
ACCCCTTCCACCCCAAGAATGAGAAGCCACGAGGGCTAGGGCCAAATCATTTTTGAAACGCATGGAAAC
ACTCCGAGGGAAGGGAGCCACGGGAGGCATAAGGGGTCTGGGCGGACAGGTGGCCTGGTGATCAGTGGG
CCCATGTTGCAGCAGGAGCCAGAGTCTTTAAGGCTATGCAAGTGCATCCAAATACCAATGGAGATCTCC
AGAATTCGCCGCCACCTGCCTGCAGAAAAGGGCTCCCATGCTCTGGCAAGTGCAGTGGCGAGAGCAGCCC
GTCGGAGCACAGCAGCAGCGGGGTGAGCAGCCCTGCCTGAAGGAACGCAAGTGCACGAGGCAACAAG
CGCGGGGGCATGTACTTGGAGGACCTAGATGTGCTGGCGGGACAGCACTGCCGGATGCAGGGGACCAAA
GCCGTATGCATGAATTTCACTCCCAAGAGAATTTGGTGGTGCATATTCCTCAAGGATCACAAACCAGGAAC
ATTCCTCAAGGCACTTTCTATTGAAAGCCTCTCTCCACAGATAGTAGCAATGGGGTTAATTGGAGGACC
GGTAGCATCTCCCTGGGAGAGAGCAGGTCCCTGGTGCCAGGGAGCCCCGGCTCATGGCGTCTGCCACA
GAGCCAGCCGAGTCAGTATCTATGACAATGTCCCTGGCTCCCATCTGTATGCCAGCACAGGAGATCTTTT
GGACTTGAGAAAAGATGACCTTTTCCCTCACTTGATGACATTCTGCAGCATGTCAATGGCTCCAAGAG
GTAGTCGATGACTGGTCCAAAGATGTCTTGCCTGAACTGCAAACCTCATGATACATTGGTTGGGGAACCTG



[View online >](#)

GCTTATCCACCTTTCCATCTCCTAATCAGATCACCTTAGATTTTGAAGGTAACCTGTCTCAGAAGGTCCG
 GACGACACCCAGTGATGTGAAAAGAGATGTAACATCTCTTAATGAATCTGAGCCTCTGGGGTCAGAGAC
 AGGAGGGATTCTGGTGTAGGGGCTCTCTGACCAGGCCAAACAGGCGACTCCGATGGAACAGTTCCAGC
 TGTGCGACCAGCCCCGGCCGGCCCCAGCATCGCCCCACATCAGCAGCCAGACGGCCAGCCAGCTGAGCCT
 GCTCCAGCGCTTCTACTGCTCCGCCTCACGGCCATCATGGAGAAGCACTCCATGTCCAACAAGCACGGC
 TGGACATGGTCAGTTCCAAAGTTCATGAAGAGGATGAAAGTCCCGACTACAAAGACAAGGCTGTCTTTG
 GCGTTCCTCATAGTCCAGTCCAAAGAACGGGACAGCCCTGCCTCAAAGTATTCAGCAAGCACTGAG
 ATATCTACGCAGCAACTGCCTCGATCAGGTGGTCTTTTTCGCAAATCAGGAGTGAAGTCTCGAATCCAT
 GCCCTTCGCCAAATGAATGAAAACCTCCCTGAGAACGTCAACTATGAAGACCAGTCTGCTTATGATGTGG
 CGGATATGGTGAACAGTTCTTCCGGGACCTCCCTGAGCCTCTTTTACCAACAAGCTCAGTGAGACCTT
 TCTCCATATCTATCAGTATGTCTCAAAGAGCAGCGGCTGCAGGCCGTGCAGGCTGCCATCTGCTACTG
 GCCGATGAGAACAGGGAGGTCTGCAGACGCTCTGTGTTTCTGAACGACGTGTCACCTGGTGGAAAG
 AGAATCAGATGACGCCATGAACCTGGCAGTGTGTCTGGCCCCCTCCCTTTTTCATCTTAATTTATTGAA
 GAAAGAAAGCTCTCCACGAGTCATACAGAAGAAATATGCCACTGGGAAGCCAGATCAAAGGACCTCAAC
 GAGAATCTGGCAGCAGCTCAGGGCTAGCGCACATGATCATGGAATGCGACAGACTTTTTGAGGTTCCAC
 ACGAGTTGGTGGCCAGTCTCGTAACTCGTATGTGGAGGCTGAGATCCAGTGCCAAACCCTGGAAGAATT
 GGGGACACAGCTGGAGGAGAGTGGGGCAACTTCCACACTTACCTGAACCATCTCATCCAGGGCCTCCAG
 AAAGAAGCCAAGGAGAAGTTCAAAGGATGGGTACGTGCTCCAGCACGGACAATACAGATCTTGCTTTCA
 AAAAGGTGGGCGACGGGAACCCGCTGAAGCTGTGGAAGGCTTCTGTGGAGGTGGAAGACCCCTCAGT
 GGTCTGAACCGCTGCTGAGAGAGCGCCACCTGTGGGACGAGGACTTTGTGAGTGAAGGTTGTGGAA
 ACTCTAGACAGGCAAACAGAGATCTACAGTATGTGCTGAACAGCATGGCTCCCCATCTTCCAGAGACT
 TTGTGGTTCTCAGGACCTGGAAAACGATTTGCCCAAAGGAATGTGTACCCTGGTGTCCCTCTCCGTGGA
 GCATGAGGAAGCCAGCTCCTGGTGGTGTGCGAGCAGTGGTGTGACTCGCAGTACTGATGAAACCCG
 TGTGGCTCTGGCAAGTCAAGACTGACTACATCTGCAGGATAGACCTGAAAGGTCACTCCCAAGATGGT
 ACAGCAAAGGCTTTGGACATCTGTGTGCAGCAGAAGTTGCCAGGATTAGAAACTCTTCCAGCCCTCAT
 TGCTGAGGGCCAGAAACTAAAATC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214456 representing NM_178007
 Red=Cloning site Green=Tags(s)

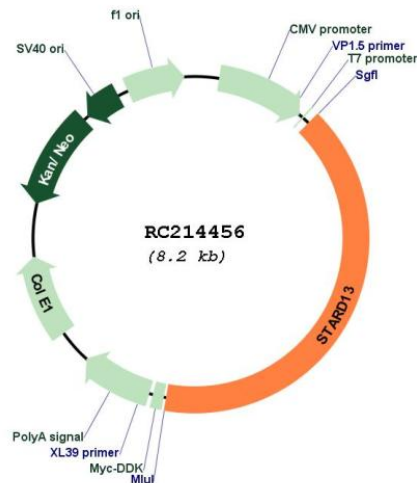
MLEPSSVLHANVNQAPLWCLVLRWCRECKDTCVCGGKQKSRVNHTFQRREIEAKEACDWLRAAGFPQYAQL
 YEDSQFPINIVAVKNDHDFLEKDLVEPLCRRNLNLKNCASMKLDVNFQRKKGDDSDDEEDLCISNKWTFQR
 TSRRWSRVDDL YTL LPRGDRNGSPGGTGM RNTTSSESVL TDLSEPEVCSIHSESSGSDRSQPQCCTD
 NPVMLDAPLVSSSLPQPPRDV LNHPFHPKNEKPTRARAKSFLKRMETLRGKGAHGRHKSGRTGGLVISG
 PMLQQEPESEFKAMQCIQIPNGDLQNSPPPACRKLPCSGKSSGESSEHSSSGVSTPCLKERKCHEANK
 RGGMYLEDLDVLAGTALPDAGDQSRMHEFHSENLVVHIPKDHKPGTFPKALSIESLSPTDSSNGVNWRT
 GSI SLGREQVPGAREPRLMASCHRASRVSIYDNVPGSHLYASTGDLLDLEKDDLFPHLDDILQHVNLQEQE
 VVDDWSKDVLPQLQTHDTLVGEPGLSTFPSPNQITLDFEGNSVSEGRTPSDVERDVTSLNESEPPGVRD
 RRD SGV GASL TRPNRRLRWNSFQLSHQPRPAPASPHISSQTASQLSLLQRFSLRLTAIMEKHSMSNKHG
 WTWSVPKFMKRMKVPDYKDAVFGVPLIVHVQRTGQPLPQSIQQALRYLRSNCLDQVGLFRKSGVKSRIH
 ALRQMNFENFPENYEDQSAVDVADMVKQFFRDLPEPLFTNKLSETFLHIYQYVSKEQRLQAVQAAILLL
 ADENREVLQTL LCF LNDVVNLVEENQMPMNLAVCLAPSLFHLNLLKKESSPRVIQKKYATGKPDQKDLN
 ENLAAAQGLAHMIMECDRLFEVPHELVAQSRNSVVEAEIHVPTLEELGTQLEESGATFHTYLNHLIQGLQ
 KEAKEKFKGWVTCSTDNLDLAFKKVGDGNPLKLVKASVEVEAPPSVVLNRVLRERHLWDEDFVQWKVVE
 TLD RQTEIYQYVLNSMAPHSRDFVVLRTWKTDLPKGMCTLVSLSVEHEEAQLLGGVRAYVMDSQYLIEP
 CGSGKSRLTHICRIDLKGHSPEWYSKGFGLCAAEEVARIRNSFQPLIAEGPETKI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_178007

ORF Size: 3315 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: | <ol style="list-style-type: none">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: | <u>NM_178007.3</u> |
| RefSeq Size: | 5836 bp |
| RefSeq ORF: | 3318 bp |
| Locus ID: | 90627 |
| UniProt ID: | <u>Q9Y3M8</u> |
| Cytogenetics: | 13q13.1-q13.2 |
| MW: | 123.9 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] |