

Product datasheet for **RG234649**

STARD13 (NM_001243474) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STARD13 (NM_001243474) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STARD13
Synonyms:	ARHGAP37; DLC2; GT650; LINC00464
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234649 representing NM_001243474
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAACTTGATGTGAACCTTCCAAAGAAAAAGGGTGACGACTCCGATGAGGAAGATCTTTGTATCAGCA
 ACAAATGGACTTTCCAAAGAACCAGTCGCAGGTGGTCTCGTGTGGACACCTCTACACGCTGCTCCCTCG
 AGGAGACAGAAATGGGTACCGGGAGGCACGGGGATGAGGAACACGACCAGCAGTGAGAGCGTCCTCACA
 GACCTGAGCGAGCCTGAGGTCTGCTCCATTACAGCGAAAGCAGTGGAGGCAGCGACAGTCGCAGCCAGC
 CGGGCCAGTGCTGTACAGACAACCCGGTCATGCTGGATGCCCCACTCGTCAGCAGCAGCCTCCACAGCC
 CCCCAGAGATGTCCTCAACCACCCTTCCACCCCAAGAATGAGAAGCCCACGAGGGCTAGGGCCAAATCA
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 AGTGCCACGAGGCCAACAGCGCGGGGGCATGTAAGTGGAGGACCTAGATGTGCTGGCGGGGACAGCACT
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 ATGGGGTTAATTTGGAGGACCGGTAGCATCTCCCTGGGCAGAGAGCAGGTCCCTGGTGCCAGGGAGCCCCG
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 CCATGTCCAACAAGCAGCGCTGGACATGGTCAGTTCCAAAGTTCATGAAGAGGATGAAAGTTCCCGACTA
 CAAAGACAAGGCTGTCTTTGGCGTCTCTCATAGTCCACGTCCAAGAAGCGGGACAGCCCTGCCTCAA
 AGTATTCAGCAAGCACTGAGATATCTACGAGCAACTGCCTCGATCAGGTGGGTCTTTTCGCAAAATCAG
 GAGTGAAGTCTCGAATCCATGCCCTTCGCCAAATGAATGAAAACCTCCCTGAGAAGCTCAACTATGAAGA
 CCACTCTGCTTATGATGTGGCGGATATGGTGAACAGTCTTCCGGGACCTCCCTGAGCCTCTTTTACC
 AACAAAGCTCAGTGAACCTTTCTCCATATCTATCAGTGAAGTGGAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234649 representing NM_001243474
 Red=Cloning site Green=Tags(s)

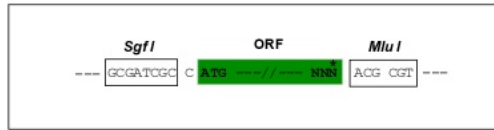
MKLDVNFQRKKGDDSDDEEDLCISNKWTFQRTSRWRSRVDLLYTLPRGDRNGSPGGTGMRNTTSSSVLT
 DLSEPEVCSIHSESSGSDRSRQPGQCCTDNPVMLDAPLVSSSLPQPPRDVLNHPFHPKNEKPTRARAKS
 FLKRMTLRGKGAHGRHKGSGRTGGLVLSGPMQLQEPESFKAMQCIQIPNGDLQNSPPPACRKGLPCSGK
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 KDHKPGTFPKALSIESLSPTDSSNGVNWRTGSI SLGREQVPGAREPRLMASCHRASRVSIYDNVPGSHLY
 ASTGDLLDLEKDDLFPHLDDILQHVNGLQEVVDDWSKDVLPQLQTHDTLVGEPGLSTFPSPNQITLDFEG
 NSVSEGRTPSDYVERDVTSLNESEPPGVRDRRDSGVGASLTRPNRRLRWNSFQLSHQPRPAPASPHISSQ
 TASQLSLLQRFSLRLTAIMEKHSMSNKHGWTWSVPKFMKRMKVPDYKDKAVFGVPLIVHVQRTGQPLPQ
 SIQQALRYLRNCLDQVGLFRKSGVKSRIHALRQMNFENPNVYEDQSAVDVADMVKQFFRDLPEPLFT
 NKLSETFLHIYQCKWK

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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

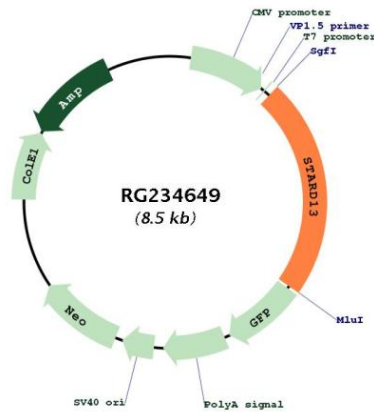
Locus ID: 90627

UniProt ID: [Q9Y3M8](#)

Cytogenetics: 13q13.1-q13.2

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 RG234649