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Product datasheet for RG234716

STARD13 (NM_001243466) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STARD13 (NM_001243466) 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)

ORF Nucleotide Sequence:

>RG234716 representing NM_001243466
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGGAACCCTCCTCAGTTCTCCATGCAAACGTTAACCAGGCCCCTTTGTGGTGCTTGGTGCTGCGCT
GGTGCAGAGAATGCAAAGACACTGTCTGTGGTGGGAAACAGAAAAGCAGAGTGAACCACACATTCCAGCG
CCGGGAAATTGAGGCAAAAGAAGCATGTGACTGGCTCCGTGCTGCCGGGTTCCCGCAATACGCTCAGTTA
TATGAGGATTCACAATTTCCCATCAACATTGTGGCTGTCAAGAATGATCATGATTTTCTTGAAAAGGACC
TTGTAGAACCTCTTTGCAGACGACTAAATACGTTGAACAAGTGTGCCTCAATGAAACTTGATGTGAACTT
CCAAAGGAAAAAGGGTGACGACTCCGATGAGGAAGATCTTTGTATCAGCAACAAATGGACTTTCCAAAGA
ACCAGTCGCAGGTGGTCTCGTGTGGACGACCTCTACACGCTGCTCCCTCGAGGAGACAGAAATGGGTCAC
CGGGAGGCACGGGGATGAGGAACACGACCAGCAGTGAGAGCGTCCTCACAGACCTGAGCGAGCCTGAGGT
CTGCTCCATTCACAGCGAAAGCAGTGGAGGCAGCGACAGTCGCAGCCAGCCGGGCCAGTGCTGTACAGAC
AACCCGGTCATGCTGGATGCCCCACTCGTCAGCAGCAGCCTCCCACAGCCCCCCAGAGATGTCCTCAACC
ACCCCTTCCACCCCAAGAATGAGAAGCCCACGAGGGCTAGGGCCAAATCATTTTTGAAACGCATGGAAAC
ACTCCGAGGGAAGGGAGCCCACGGGAGGCATAAGGGGTCTGGGCGGACAGGTGGCCTGGTGATCAGTGGG
CCCATGTTGCAGCAGGAGCCAGAGTCCTTTAAGGCTATGCAGTGCATCCAAATACCAAATGGAGATCTCC
AGAATTCGCCGCCACCTGCCTGCAGAAAAGGGCTCCCATGCTCTGGCAAGTCGAGTGGCGAGAGCAGCCC
GTCGGAGCACAGCAGCAGCGGGGTGAGCACGCCCTGCCTGAAGGAACGCAAGTGCCACGAGGCCAACAAG
CGCGGGGGCATGTACTTGGAGGACCTAGATGTGCTGGCGGGGACAGCACTGCCGGATGCAGGGGACCAAA
GCCGTATGCATGAATTTCACTCCCAAGAGAATTTGGTGGTGCATATTCCCAAGGATCACAAACCAGGAAC
ATTCCCCAAGGCACTTTCTATTGAAAGCCTCTCTCCCACAGATAGTAGCAATGGGGTTAATTGGAGGACC
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GTAGTCGATGACTGGTCCAAAGATGTCTTGCCTGAACTGCAAACTCATGATACATTGGTTGGGGAACCTG
GCTTATCCACCTTTCCATCTCCTAATCAGATCACCTTAGATTTTGAAGGTAACTCTGTCTCAGAAGGTCG
GACGACACCCAGTGATGTGGAAAGAGATGTAACATCTCTTAATGAATCTGAGCCTCCTGGGGTCAGAGAC
AGGAGGGATTCTGGTGTAGGGGCCTCTCTGACCAGGCCAAACAGGCGACTCCGATGGAACAGTTTCCAGC
TGTCGCACCAGCCCCGGCCGGCCCCAGCATCGCCCCACATCAGCAGCCAGACGGCCAGCCAGCTGAGCCT
GCTCCAGCGCTTCTCACTGCTCCGCCTCACGGCCATCATGGAGAAGCACTCCATGTCCAACAAGCACGGC
TGGACATGGTCAGTTCCAAAGTTCATGAAGAGGATGAAAGTTCCCGACTACAAAGACAAGGCTGTCTTTG
GCGTTCCTCTCATAGTCCACGTCCAAAGAACGGGACAGCCCCTGCCTCAAAGTATTCAGCAAGCACTGAG
ATATCTACGCAGCAACTGCCTCGATCAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

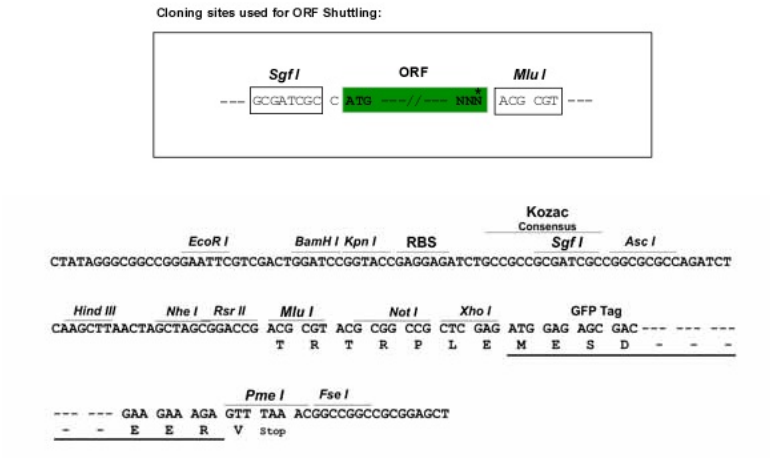
>RG234716 representing NM_001243466
Red=Cloning site Green=Tags(s)

MLEPSSVLHANVNQAPLWCLVLRWCRECKDTVCGGKQKSRVNHTFQRREIEAKEACDWLRAAGFPQYAQL
YEDSQFPINIVAVKNDHDFLEKDLVEPLCRRLNTLNKCASMKLDVNFQRKKGDDSDEEDLCISNKWTFQR
TSRRWSRVDDLYTLLPRGDRNGSPGGTGMRNTTSSESVLTDLSEPEVCSIHSESSGGSDSRSQPGQCCTD
NPVMLDAPLVSSSLPQPPRDVLNHPFHPKNEKPTRARAKSFLKRMETLRGKGAHGRHKGSGRTGGLVISG
PMLQQEPESFKAMQCIQIPNGDLQNSPPPACRKGLPCSGKSSGESSPSEHSSSGVSTPCLKERKCHEANK
RGGMYLEDLDVLAGTALPDAGDQSRMHEFHSQENLVVHIPKDHKPGTFPKALSIESLSPTDSSNGVNWRT
GSISLGREQVPGAREPRLMASCHRASRVSIYDNVPGSHLYASTGDLLDLEKDDLFPHLDDILQHVNGLQE
VVDDWSKDVLPELQTHDTLVGEPGLSTFPSPNQITLDFEGNSVSEGRTTPSDVERDVTSLNESEPPGVRD
RRDSGVGASLTRPNRRLRWNSFQLSHQPRPAPASPHISSQTASQLSLLQRFSLLRLTAIMEKHSMSNKHG
WTWSVPKFMKRMKVPDYKDKAVFGVPLIVHVQRTGQPLPQSIQQALRYLRSNCLDQE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001243466

ORF Size: 2061 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_001243466.2

RefSeq Size: 2825 bp

RefSeq ORF: 2064 bp

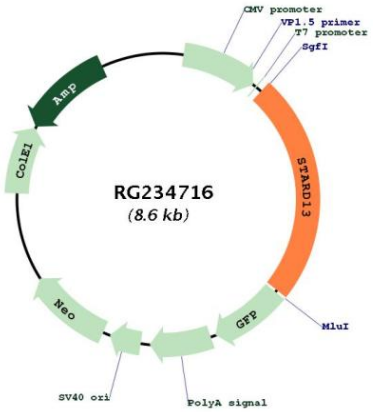
Locus ID: 90627

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 RG234716