

## Product datasheet for **RG217815**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	STARD13 (NM_052851) 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:**

>RG217815 representing NM\_052851  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAACTTGATGTGAACCTTCCAAAGAAAAAGGGTGACGACTCCGATGAGGAAGATCTTTGTATCAGCA  
 ACAAATGGACTTTCCAAAGAACCAGTCGCAGGTGGTCTCGTGTGGACGACCTCTACACGCTGCTCCCTCG  
 AGGAGACAGAAATGGGTACCGGGAGGCACGGGGATGAGGAACACGACCAGCAGTGAGAGCGTCCTCACA  
 GACCTGAGCGAGCCTGAGGTCTGCTCCATTACAGCGAAAGCAGTGGAGGCAGCGACAGTCGCAGCCAGC  
 CGGGCCAGTGCTGTACAGACAACCCGGTCATGCTGGATGCCCCACTCGTCAGCAGCAGCCTCCCACAGCC  
 CCCCAGAGATGTCCTCAACCACCCTTCCACCCCAAGAATGAGAAGCCCACGAGGGCTAGGGCCAAATCA  
 TTTTTGAAACGCATGGAAACACTCCGAGGAAGGGAGCCACGGGAGGCATAAGGGGTCTGGGCGGACAG  
 GTGGCCTGGTGATCAGTGGGCCATGTTGCAGCAGGAGCCAGAGTCTTTAAGGCTATGCAGTGCATCCA  
 AATACCAATGGAGATCTCCAGAATTCGCCGCCACCTGCCTGCAGAAAAGGGCTCCCATGCTCTGGCAAG  
 TCGAGTGGCGAGAGCAGCCCGTCGGAGCACAGCAGCAGCGGGGTGAGCAGCCCTGCCTGAAGGAACGCA  
 AGTGCCACGAGGCCAACAGCGCGGGGGCATGTAATTGGAGGACCTAGATGTGCTGGCGGGGACAGCACT  
 GCCGGATGCAGGGGACCAAAGCCGATGTCATGAATTTCACTCCCAAGAGAATTTGGTGGTGCATATTTCC  
 AAGGATCACAACCCAGGAACATTTCCCAAGGCACTTTCTATTGAAAGCCTCTCTCCACAGATAGTAGCA  
 ATGGGGTTAATTGGAGGACCGGTAGCATCTCCCTGGGCAGAGAGCAGGTCCCTGGTGCCAGGGAGCCCCG  
 GCTCATGGCGTCTGCCACAGAGCCAGCCGAGTCAGTATCTATGACAATGTCCTGGCTCCCATCTGTAT  
 GCCAGCACAGGAGATCTTTTGGACTTGGAGAAAGATGACCTTTTCCCTCACTTGGATGACATTCTGCAGC  
 ATGTCATATGGGCTCCAAGAGGTAGTCGATGACTGGTCCAAGATGTCTTGGCTGAACGCAAATCATGA  
 TACATTGGTTGGGAACCTGGCTTATCCACCTTCCATCTCCTAATCAGATCACCTTAGATTTTGAAGGT  
 AACTCTGTCTCAGAAGGTCGGACGACACCCAGTGTGAGAAAGAGATGTAACATCTCTTAAATGAATCTG  
 AGCCTCTGGGGTCAAGACAGGAGGGATTCTGGTGTAGGGGCTCTCTGACCAGGCCAAACAGGCGACT  
 CCGATGGAACAGTTTCCAGCTGTGACACAGCCCGCCGGCCCGCCAGCATCGCCACATCAGCAGCCAG  
 ACGGCCAGCCAGCTGAGCCTGCTCCAGCGCTTCTCACTGCTCCGCTCACGGCCATCATGGAGAAGCACT  
 CCATGTCCAACAAGCAGCGCTGGACATGGTCAGTTCCAAAGTTCATGAAGAGGATGAAAGTTCCCGACTA  
 CAAAGACAAGGCTGTCTTTGGCGTTCCTCTCATAGTCCACGTCCAAGAAGACGGGACAGCCCTGCCTCAA  
 AGTATTCAGCAAGCACTGAGATATCTACGAGCAACTGCCTCGATCAGGTGGGTCTTTTTCGCAAATCAG  
 GAGTGAAGTCTCGAATCCATGCCCTTCGCCAAATGAATGAAAACCTCCCTGAGAAGCTCAACTATGAAGA  
 CCACTCTGCTTATGATGTGGCGGATATGGTGAACAGTCTTCCGGGACCTCCCTGAGCCTCTTTTACC  
 AACAAAGCTCAGTGAACCTTTCTCCATATCTATCAGTATGTCTCCAAAGAGCAGCGGCTGCAGGCCGTGC  
 AGGCTGCCATCTGCTACTGGCCGATGAGAACAGGGAGGTCTGCAGACGCTCTTGTGTTTCTGAAACGA  
 CGTCGTCAACTTGGTGAAGAGAATCAGATGACGCCATGAACCTGGCAGTGTGTCTGGCCCCCTCCCTC  
 TTTTATCTTAATTTATGAAGAAAGAAAGCTCTCCACGAGTCATACAGAAGAAATATGCCACTGGGAAGC  
 CAGATCAAAGGACCTCAACGAGAATCTGGCAGCAGCTCAGGGGCTAGCGCACATGATCATGGAATGCGA  
 CAGACTTTTTGAGGTTCCACACGAGTTGGTGGCCAGTCTCGTAACTCGTATGTGGAGGCTGAGATCCAC  
 GTGCCAACCTGGAAGAATTGGGGACACAGCTGGAGGAGAGTGGGGCAACTTTCCACACTTACCTGAACC  
 ATCTCATCCAGGCCCTCCAGAAAGAAGCAAGGAGAAGTTCAAAGGATGGGTACGCTGCTCCAGCACGGA  
 CAATACAGATCTTGCTTTCAAAAAGGTGGGCGACGGGAACCCGCTGAAGCTGTGGAAGGCTTCTGTGGAG  
 GTGGAAGCACCCCTCAGTGGTCTGAACCGCTGCTGAGAGAGCGCCACCTGTGGGACGAGGACTTTG  
 TGCAGTGAAGGTTGTGGAACCTTAGACAGGCAACAGAGATCTACCAGTATGTGCTGAACAGCATGGC  
 TCCCCATCTTCCAGAGACTTTGTGTTCTCAGGACCTGGAAAAGTATTTGCCAAAGGAATGTGTACC  
 CTGGTGTCCCTCTCCGTGGAGCATGAGGAAGCCAGCTCCTGGTGGTGTGCGAGCAGTGGTGTGACT  
 CGCAGTACTTGATAGAACCGTGTGGCTCTGGCAAGTCAAGACTGACTCACATCTGCAGGATAGACCTGAA  
 AGGTCACTCCCCAGAATGGTACAGCAAAGGCTTTGGACATCTGTGTGCAGCAGAAGTTGCCAGGATTAGA  
 AACTCTTTCAGCCCCTCATTGCTGAGGGCCAGAAAATAAAATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG217815 representing NM\_052851  
Red=Cloning site Green=Tags(s)

MKLDVNFQRKKGDDSDDEEDLCISNKWTFQRTSRRWSRVDDL YTL LPRGDRNGSPGGTGMRNTTSSSESVLT  
 DLSEPEVCSIHSESSGGSDRSQPGQCCTDNPVMLDAPLVSSSLPQPPRDVLNHPFHPKNEKPTRARAKS  
 FLKRMETLRGKGAHGRHKSGRTGGLVISGPM LQQEPE SFKAMQCIQIPNGDLQNSPPPACRKLPCSGK  
 SSGESSPSEHSSSGVSTPCLKERKCHEANKRGGMYLEDLDVLAGTALPDAGDQSRMHEFHSQENLVVHIP  
 KDHKPGTFPKALSIESLSPTDSSNGVNWRTGSI SLGREQVPGAREPRLMASCHRASRVSIYDNVPGSHLY  
 ASTGDL LDLEKDDLPHLDDILQHVNGLQEVVDDWSKDVLP ELQTHDTLVGEPGLSTFPSPNQITLDFEG  
 NSVSEGRTPSDVERDVTSLNESEPPGVRDRRDSGVGASLTRPNRRLRWNSFQLSHQPRPAPASPHISSQ  
 TASQLSLLQRF SLLRLTAIMEKHSMSNKHGWTWSVPKFMKRMKVPDYKDKAVFGVPLIVHVQRTGQPLPQ  
 SIQQALRYLRSNCLDQVGLFRKSGVKSRIHALRQMNENFPENVNYEDQSAYDVADMVKQFFRDLP EPLFT  
 NKLSETFLHIYQYVSKEQRLQAVQAAIILLADENREVLQTL LCF LNDVVNLVEENQMPMNLAVCLAPSL  
 FHLNLLKKESSPRVIQKKYATGKPDQKDLNENAAAQGLAHMIMECDRLFVPHELVAQSRNSYVEAEIH  
 VPTLEELGTQLEESGATFH TYLNHLIQGLQKEAKEKFKGWYTCSSDNTDLAFKKVGDGNPLKLWKA SVE  
 VEAPPSVVLNRVLRERHLWDEDFVQWKV VETLDRQTEIYQYV LNSMAPHPSRDFVVLRTWKTDLPKG MCT  
 LVLSLVEHEEAQLLGGVRAVVMDSQYLIEPCGSGKSRLTHICRIDLKGHSP EWYSKGFGHLCAA EAVARIR  
 NSFQPLIAEGPETKI

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

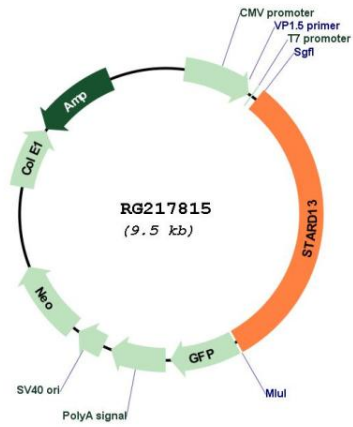


**ACCN:** NM\_052851

**ORF Size:** 2985 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_052851.3</a>
<b>RefSeq Size:</b>	5866 bp
<b>RefSeq ORF:</b>	2988 bp
<b>Locus ID:</b>	90627
<b>UniProt ID:</b>	<a href="#">Q9Y3M8</a>
<b>Cytogenetics:</b>	13q13.1-q13.2
<b>Domains:</b>	RhoGAP, START
<b>Gene Summary:</b>	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 RG217815