

## Product datasheet for **RG222398**

### **RALGDS (NM\_001042368) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RALGDS (NM_001042368) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RALGDS
Synonyms:	RalGEF; RGDS; RGF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG222398 representing NM\_001042368  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

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**ACGGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG222398 representing NM\_001042368  
Red=Cloning site Green=Tags(s)

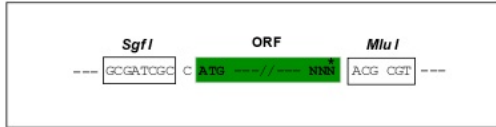
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TRTRPLE - GFP Tag - V

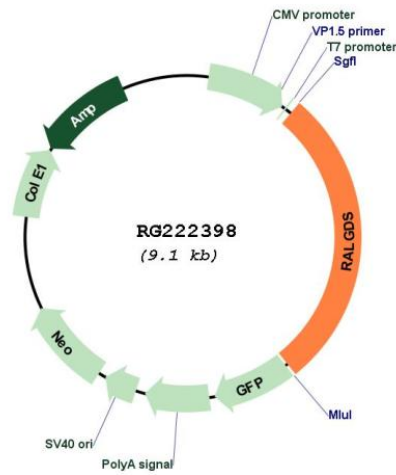
**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



<b>ACCN:</b>	NM_001042368
<b>ORF Size:</b>	2577 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_001042368.3</a>
<b>RefSeq Size:</b>	3668 bp
<b>RefSeq ORF:</b>	2580 bp
<b>Locus ID:</b>	5900
<b>UniProt ID:</b>	<a href="#">Q12967</a>
<b>Cytogenetics:</b>	9q34.13-q34.2
<b>Protein Pathways:</b>	Colorectal cancer, Pancreatic cancer, Pathways in cancer
<b>Gene Summary:</b>	Guanine nucleotide dissociation stimulators (GDSs, or exchange factors), such as RALGDS, are effectors of Ras-related GTPases (see MIM 190020) that participate in signaling for a variety of cellular processes.[supplied by OMIM, Nov 2010]