

## Product datasheet for **RG225095**

### Iba1 (AIF1) (NM\_004847) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Iba1 (AIF1) (NM\_004847) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** AIF1  
**Synonyms:** AIF-1; IBA1; IRT-1; IRT1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG225095 representing NM\_004847  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGTTTGACCTTAATGGAAATGGCGATATTGGTGAGAAACGGGTGATTTGCGGGGCAGGGTGGTGT  
GCAGGCCAAGAAGACAGAGGTCTCTCTACATGCTCCATTCTCATGATTTGGGAGGGGCCACCTAC  
CACAGTGGGAGGAAGGAGAATGGGGATGCGGAAGTGGGAGAGGAGAGAGAGGGTCTCCCCACCTTCTCCC  
CATCCCCATCTCTGCCCCAGATATCATGTCCCTGAAACGAATGCTGGAGAACTGGAGTCCCCAAGA  
CTCACCTAGAGCTAAAGAAATTAATTGGAGAGGTGCCAGTGGCTCCGGGAGACGTTTCAGCTACCCTGA  
CTTCTCAGGATGATGCTGGGCAAGAGATCTGCCATCTAAAAATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG225095 representing NM\_004847  
Red=Cloning site Green=Tags(s)  
MEFDLNGNGDIGEKRVICGGRVVCPRPKTEVSPTCSIPHDLGGPPTTVGGRRMGMRKWERRERVSPPSP  
HPHPLPPDIMSLKRMLEKLGVPKTHLELKKLIGEVSSETFSYPDFLRMMLGKRSAILKM

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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<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_004847.3</a> , <a href="#">NP_004838.1</a>
<b>RefSeq Size:</b>	1491 bp
<b>RefSeq ORF:</b>	399 bp
<b>Locus ID:</b>	199
<b>Cytogenetics:</b>	6p21.33
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	This gene encodes a protein that binds actin and calcium. This gene is induced by cytokines and interferon and may promote macrophage activation and growth of vascular smooth muscle cells and T-lymphocytes. Polymorphisms in this gene may be associated with systemic sclerosis. Alternative splicing results in multiple transcript variants, but the full-length and coding nature of some of these variants is not certain. [provided by RefSeq, Jan 2016]