

## Product datasheet for **MG225743**

### Dock1 (NM\_001033420) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dock1 (NM_001033420) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dock1
Synonyms:	9130006G06Rik; A1854900; D630004B07Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225743 representing NM_001033420 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

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GAGCAGATGAACTGTCCCTTCAAATGGAGACACCGTGCACATCTAGAACTTATGAAGGGTGGTACAG  
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TGGTTTGAGACCCCTTAAGGTGGCCATCCCCATTGAGGACGTGAACCGGAGTCACCTTCGATTCACCTTCC  
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG225743 representing NM\_001033420  
 Red=Cloning site Green=Tags(s)

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 FQAVAGENDFLQTVINKVIAAKEVNHKGQGLWVTLKLLPGDIHQIRKEPHLVDRRTAVARKTGPEIIM  
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 VIRPKPDYFVAVGGYQGFPSFLRGKVFYIRGKEYERREDFEARLLTQFPNAEKMKTTSPPGDDIKTSPGQ  
 YIQCFYVQPKLDLPPRFHRPVSEQIVSFYRVNEVQRFEYSRPIRKGEKNPDNEFANMWIERTIYTTAYKL  
 PGI LRWFVKSVMVEISPLENAIETMQLTNDKISSMVQQHLDDPGLPINPLSMLLNGIVDPAVMGGFAN  
 YEKAFFTDRLYQEHPEAHGQIEKLDLIAWQIPFLAEGIRIHGDKVTEALRPFHERMEACFKLKEKVEK  
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 SQDKLDKDDPDKEKKDKKKEKRNKSHQEIFDKEFKPADSSLQSEAVILSETISPLRPQRPKSQVINVIG  
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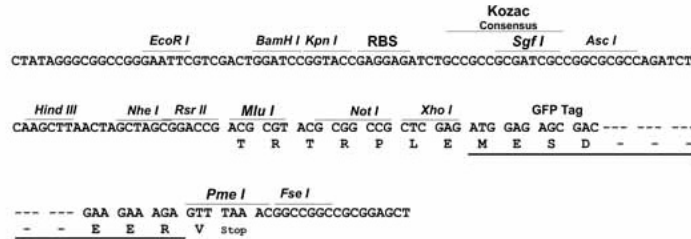
TRTRPLE - GFP Tag - V

**Restriction Sites:**

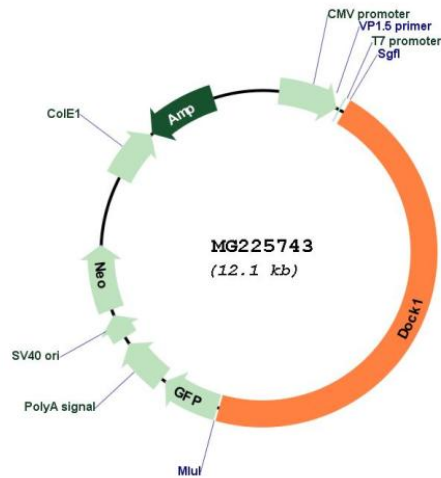
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_001033420  
 ORF Size: 5595 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_001033420.2</a> , <a href="#">NP_001028592.1</a>
<b>RefSeq Size:</b>	6815 bp
<b>RefSeq ORF:</b>	5598 bp
<b>Locus ID:</b>	330662
<b>UniProt ID:</b>	<a href="#">Q8BUR4</a>
<b>Cytogenetics:</b>	7 F3
<b>Gene Summary:</b>	Involved in cytoskeletal rearrangements required for phagocytosis of apoptotic cells and cell motility. Along with DOCK1, mediates CRK/CRKL regulation of epithelial and endothelial cell spreading and migration on type IV collagen. Functions as a guanine nucleotide exchange factor (GEF), which activates Rac Rho small GTPases by exchanging bound GDP for free GTP. Its GEF activity may be enhanced by ELMO1.[UniProtKB/Swiss-Prot Function]