

## Product datasheet for **MG205553**

### Elac1 (NM\_053255) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Elac1 (NM_053255) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Elac1
Synonyms:	2610018O07Rik; 8430417G19Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205553 representing NM_053255 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCATGGATGTGACCTTTCTTGGGACAGGAGCAGCATATCCATCACCGACCCGTGGCGCCTCTGCGG  
TGGTTCTTCGGTGTGAGGGCGAGTGTGGCTCTTTGACTGTGGGGAGGGAACACAGACCCAGCTTATGAA  
AAGCCAGCTTAAAGCAGGGAGAATTACCAAGATCTTCATCACACATCTCCATGGCGACCACTTCTTTGGC  
CTTCCAGGCTCCTGTACCATCAGCCTGCAGAGTGGCTCTGTGGTCCGAGGCAGCCTATTGAGATCT  
ACGGCCCCGTGGGCTTCGGGACTTTATCTGGAGAACCATGGAGCTCTCTCACACGGAGTTGGTGTTC  
TTACGTGGTTCACGAGCTAGTTCCTACAGCTGACCAAGTGTCTGTAGAAGAACTGAGAGAATTTGCACAC  
ATGGATGAAACAGACAGCTCTCCCAAAGGACAAGGACGAAGTATCTTGCTAGATGAGAAGAAAACATCAT  
ACTGTCTGGTTGATGACGAGCAGTTTGTGGTAAAAGCATTTTCGCCTCTTTTCATAGAATCCATCCTTTGG  
CTTTTCAGTTGTGAAAAGAAGCGTGCAGGTAAACTCAACGCACAGAAGCTGAGAGATCTCGGTGTGCCA  
CCAGGTCTGCCTATGGGAAGCTGAAAACGGAATTTCTGTTGTTTTGGATAATGGAGTTACAATTTCTC  
CCCAAGACGTCTAAAAAAGCCTATGGTTGGAAGAAAAGTTTGCATCCTGGGTGACTGTTCTGGGGTTGT  
GGGTGACGGGGCGTGAAGCTGTGCTTTGAGGCCGACCTGCTGATCCACGAGGCCACTCTGGATGATTCC  
CAGATGGACAAAGCGAGAGACACGGCCACAGCACGCCGAGATGGCAGCGGCGTTTGAAGCTGTGCC  
GTGCCAAGAGGCTAGTTCTGACCCACTTCAGTCAGAGGTACAAACCAACCGCCTTGGCGAGAGAAGGGGA  
GGCAGACGGCATCGCAGAGCTGAGGAAGCAAGCAGAGGCCGTGTTAGAGCTCCAAGAAGTACTCTAGCA  
GAAGATTTTATGGTGATCGGCATTCCGATCAAGAAA

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205553 representing NM\_053255  
 Red=Cloning site Green=Tags(s)

MSMDVTLGTGAAYPSPTRGASAVVLRCEGECWLFDCGEGTQTQLMKSQKAGRITKIFITHLHGDHFFG  
 LPGLLCTISLQSGSVVARQPIE IYGPVGLRDFIWRMELSHTEL VFPYVVELH VPTADQCPVEELREFAH  
 MDETSSPKGQGRITILLDAEENSYCLVDEQFVVKAFRLFHRIPSF GFSVVEKKRAGKLN AQKLRDLGVP  
 PGPAYGKLNKGISVVL DNGVTI SPQDVLKKPMVGRKVCILGDSCGVVGDGGVKLCFEADLLIHEATLDDS  
 QMDKAREHGHSTPQMAAAF AKLCRAKRLVLTHFSQRYKPTALAREGEADGIAELRKQAEAVLELQEVTLA  
 EDFMVIIGIPIKK

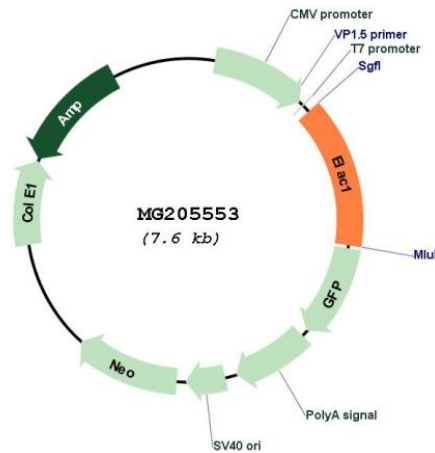
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_053255

<b>ORF Size:</b>	1086 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_053255.2</a>
<b>RefSeq Size:</b>	4971 bp
<b>RefSeq ORF:</b>	1089 bp
<b>Locus ID:</b>	114615
<b>UniProt ID:</b>	<a href="#">Q8VEB6</a>
<b>Cytogenetics:</b>	18 E2
<b>Gene Summary:</b>	Zinc phosphodiesterase, which displays some tRNA 3'-processing endonuclease activity. Probably involved in tRNA maturation, by removing a 3'-trailer from precursor tRNA (By similarity).[UniProtKB/Swiss-Prot Function]