

## Product datasheet for **MG220652**

### Defa-rs10 (NM\_007845) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Defa-rs10 (NM\_007845) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Defa-rs10  
**Synonyms:** CRS4C-4; Defcr-rs10  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG220652 representing NM\_007845  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGAACTTGTCTTCTCTGCCTTCGTTCTGCTGGCCTTCAGGTCCAGGCTGATTCTATCCAAA  
 ACACAGATGAAGAGACTAAACTGAGGAACAGCCAGGAGAAGAGAACCAGGCTATGTCTGTTTCCTTTGG  
 AGACCCGGAAGTTCTGCTCTTCAAGATGCAGCCGTAGGAATGGCTCGGCCGTGCCACCATGCCCCAGT  
 TGCCCGTCATGTCCATGGTGCCAATGTGCCCGAGGTGCCCGAGCTGCAATGCAATCCAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG220652 representing NM\_007845  
 Red=Cloning site Green=Tags(s)  
 MKKLVLVLSAFVLLAFQVQADSIQNTDEETKTEEQPGREENQAMSVSFGDPEGSALQDAAVGMARPCPPCPS  
 CPSCPWCPCPRCPSCKNPK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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## Cloning Scheme:



ACCN: NM\_007845

ORF Size: 273 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM\\_007845.3](#), [NP\\_031871.1](#)

RefSeq Size: 276 bp

RefSeq ORF: 276 bp

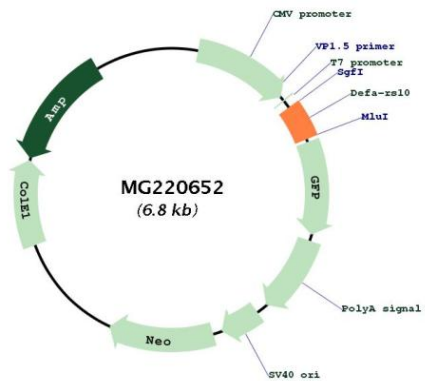
Locus ID: 13219

UniProt ID: [Q64263](#)

Cytogenetics: 8

**Gene Summary:** Apparent precursor of a secreted, cationic, proline- and cysteine-rich peptide that contains Cys-Pro-Xaa repeats. Unlike cryptdin, the proposed mature peptide region lacks the structural motif characteristic of defensins. It may have microbicidal activities (By similarity).  
[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG220652