

## Product datasheet for **MG223890**

### Dux (NM\_001081954) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dux (NM_001081954) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dux
Synonyms:	AW822073; Dux4; Duxbl; EG664783
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223890 representing NM\_001081954, codon optimized.  
 Due to the complexity of NM\_001081954, the ORF clone is codon optimized for mammalian Expression.  
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGCGGAGGCCGCTCCCACTCGGCGGAAGCGGAGTAGCCCGGAAAGTAGAAGGCGCAGGAAGACTG  
 TCTGGCAAGCCTGGCAGGAGCAGGCGCTCCTTAGCACCTTTAAAAAGAAGCGCTATCTTTCTTTAAAGA  
 ACGGAAAGAGCTCGCAAGCGGATGGGGTCCAGGACTGCAGGATAAGAGTGTGGTTCAGAAATCGGCGC  
 AATCGCTCTGGTGAAGAGGGACACGCATCAAGCGCTCTATCCGCGGATCTCGGAGGCTCGCTCCCTC  
 AATTGCAGGAAGAGCTCGGTAGCCGGCCTCAGGAAGGGGTATGAGGAGTTCCGGGCGCCGCCAAGGAC  
 TCGCTCACTTCTTTCAGCTCAGAATCCTGGGACAGGCTTTCGAGAGGAATCCTCGCCCGGTTTCGCA  
 ACCCGGGAGGAGCTTGTCTGAGATACCGGTCTTCTGAGGACACAATCCACATCTGGTTCAGAACAGAC  
 GAGCTCGAAGGAGGCACAGGAGGGGGCGACCGACGGCTCAGGACCAGGATCTGTTGGCATCTCAAGGAAG  
 TGATGGCGCACCCGCGGACCAGAGGGCCGCGAGAGGGAAGGTGCGCAGGAAAACCTTCTGCCTCAAGAG  
 GAGGCAGGAAGCACCGGAATGGACACCTCCTCCCATCTGACCTGCCGAGCTTCTGCGGAGAGAGTCAGC  
 CCTTTAGGTGGCCCAACCCGAGGCGCTGGGCAGCAAGAAGCGCCTACAAGAGCCGGAATCGGGGCGAG  
 TCTCGAACCTCTCCTGGATCAACTCCTCGATGAAGTCCAGGTGGAGGAACCCAGCCCACTCACTCAAT  
 CTGGACGAGATCCCGGAGGGAGAGTACACGAGGTTTACAGGAGAGTTTTTGGCCCGAGGAGGAAGCGG  
 GTAGCACTGGGATGGATACCAGCAGCCCTCCGACAGCAATAGTTTTTGCAGGAAAAGTACGCCCTCTCA  
 AGTTGCTCAGCCTTGGCGCGCCGGCAGGAGGACGCTAGAACCAGGACAGCACTGGACCCCTGGAG  
 CTCCTTCTGCTCGATCAGTTGCTGGATGAGGTTTCAAGGAAGAGCACGTCCTCCGCTCCCACTGGACTGGG  
 GACGCAATCCTGGCTCCCGAGAGCACGAAGGTAGCCAAGATTCTCTCCTGCCTCTGGAAGAGGCAGTGAA  
 CTCCGGCATGGACTTCTATTCCAAGCATCTGGCCACCTTTTGCAGAGAAAGCAACCACCACAGGTT  
 GCGCAGCTAGCGGACCTGGACAAGCTCAGGCTCCGACCCAGGGAGGCAATACTGATCCACTCGAAGTGT  
 TTCTCTATCAATTGCTGGACGAGGTTTCAAGTCCAGGAGCAGCACCTGCTCCGCTTAATTGGGATGTGGA  
 TCCTGGTGGGCGCGTCCACGAAGGTCCTGGGAGTCATTCTGGCCACAGGAGGAAGCAGGCTCAACCGGC  
 CTGGATACAAGCAGTCCATCCGACTCTAACTCTTTTTTAGAGAGTCTAAGCCAAGCCAGGTGGCTCAGA  
 GGCGGGGCGCCGGCAGGAGGACGCGCAGTCAAGGAGATTCAACCGGCCCACTCGAGCTGTTGCTGTT  
 CGATCAGCTTTTGGATGAAGTGCAGAAGGAGGAGCATGTTCCGGCTCCTCTTACTGGGGCCGCAATCCT  
 GGGAGCATGGAGCATGAAGGCTCTCAGGACTCCCTCCTCCCTTGAAGAGGCGCAAATCTGGGGCGG  
 ACACCAGCATCCCTAGCATTTGGCCAGCTTTCTGTAGGAAGTCCCAACCTCCACAGGTAGCCAGCCAG  
 CGGCCCGGACAAGCCAGGCACCTATCCAGGGTGGTAATACCGATCCACTCGAGCTCTTCTTGACCAG  
 CTGCTCACCGAGGTGCAGCTGGAGGAACAAGACCCGCTCCAGTGAACGTTGAAGAAACCTGGGAACAGA  
 TGGATACGACTCCGACTTCCGCTGACCAGCGAGGAATACCAGACCTGCTGGACATGCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG223890 representing NM\_001081954  
 Red=Cloning site Green=Tags(s)

MAEAGSPVGGSGVARESRRRKTVWQAWQEALLSTFKKKRYLSFKERKELAKRMGVSDCRIRVWFQNR  
 NRSGEEGHASKRSIRGSRRLASPLQEEELGSRPQGRGMRSSGRRPRTL TSLQLRILGQAFERNPRGFA  
 TREELARDTGLPEDTIHIWFQNRARRRRHRRGRPTAQDQDLLASQGS DGAPAGPEGREGAQENLLPQE  
 EAGSTGMDTSSPSDLPSFCGESQPFQVAQPRGAGQQEAPTRAGNAGSLEPLLDQLLDEVQVEEPAPAPLN  
 LDGDPGGRVHEGSQESFWPQEEAGSTGMDTSSPSDSNSFCRESQPSQVAQPCGAGQEDARTQADSTGPLE  
 LLLLDQLLDEVQKEEHVPVPLDWGRNPGSREHEGSQDSLPLEEAVNSGMDTSSIPSIWPTFCRESQPPQV  
 AQPSGPGQAQAPTQGGNTDPLELFLYQLLDEVQVEEHAPAPLNWDVDPGGRVHEGSWESFWPQEEAGSTG  
 LDTSSPSDSNSFFRESKPSQVAQRRGAGQEDARTQADSTGPLELLLFDQLLDEVQKEEHVPAPLDWGRN  
 GSMEHEGSQDSLPLEEAANSRDTSSIPSIWPAFCRKSQPPQVAQPSGPGQAQAPIQGGNTDPLELFDQ  
 LLTEVQLEEQGPAPVNVVEETWEQMDTTPDLPLTSEEYQTLLEDML

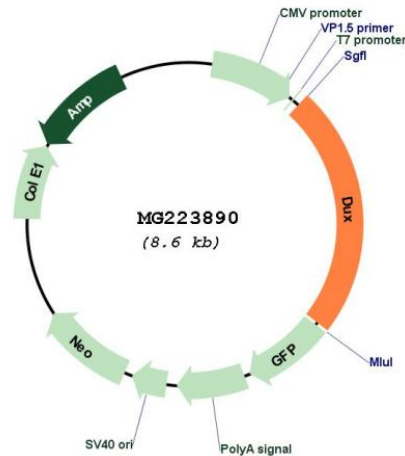
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



**Plasmid Map:**


**ACCN:** NM\_001081954

**ORF Size:** 2022 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.

**RefSeq:** [NM\\_001081954.1](#), [NP\\_001075423.1](#)

**RefSeq Size:** 2025 bp

**RefSeq ORF:** 2025 bp

**Locus ID:** 664783

Cytogenetics: 10