

Product datasheet for **MG205112**

Ddo (NM_027442) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ddo (NM_027442) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ddo
Synonyms: 5330420D20Rik; 5730402C02Rik; A1467244
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205112 representing NM_027442
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACACAGTGTGTATTGCGGTCGTTGGAGCTGGCGTGATAGGGCTGTCTACTGCAGCATGCATTTCCC
 AACTGGTTCGCGGATGCACCGTCACTGTCATCTCAGACAGGTTCACTCCTGATACCACAGTAATGTAGC
 GGCTGGGATGCTTATTCCTCACACGTATGCAGATACCCCGGTGCCACGCAGAAGCGATGTTTTAGAGAG
 ACCTTCGAGCATCTTTGAAATCGCCAAGTCTGCAGAGGCTGCAGATGCGGGTGTTCACCTGGTATCTG
 GTTGGCAGATATCCGCAGCGTCCCGCTGAAGAAGTGCCTTTCTGGGCTGATGTGGTGTGGGATTTCCG
 AAAGATGACAGAGGCTGAGCTGAAGCGTTCCTCAGTATGTGTTGGCCAGGCTTTTACAACCTGAAG
 TGCAGACTTCTGCCTACCTCCCGTGGCTGGAGAGAAGGATAAAGGGGAGTGGAGGTCTGCTACTACCA
 GGAGAATAGAAGACCTGTGGGAGCTGCAGCCATCTTTGATATCGTGGTCAATTGCTCAGGCCTGGGAAG
 CCGGCGACTTGTAGGTGACCCCATGATTTCCCGGTAAGGGGCCAGGTGCTCCAGGCACGGGCCCTGG
 GTGAAGCATTTTCATCCGAGATGGGGCGGGCTGACTTATGTTTACCCTGGTATGCTCTATGTAACCTGG
 GAGGAAGTAGACAGAAAGGAGACTGGAATCGATCCCAGATGCAGAACTAGCAGAGAGATTTTTCTCG
 ATGCTGCACTCTCGAGCCTTCCCTCCACAGAGCCTACGACATAAAGAGAAAAGTGGGGCTGAGGCCACG
 AGGCCAGGTGTGGGCTGCAGAAGGAGATCCTAGTCCGGGACAACAGCAGCTGCCTGTGGTCCACAAT
 ACGGCCACGGGAGTGGGGCATCTCTGTGCAATTGGGGCTGCTCTGGAAGCCACCAGGCTGGTGATGGA
 GTGTATCCATACCTCAGGACCCCTGCTTCCTTGTGCAAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205112 representing NM_027442
Red=Cloning site Green=Tags(s)

MDTVCIAVVGAGVIGLSTAACISQLVPGCTVTVISDRFTPDTTSNVAAGMLIPHTYADTPVPTQKRCFRE
 TFEHLSEIAKSAEADAGVHLVSGWQIFRSVPAEEVPFWADVVLGFRKMTEAELKRFPPQYVFGQAF^{*}TTLK
 CETSAYL^{*}PWLERRIKSGSGLLLL^{*}TRRIEDLWELQPSFDIVVNC^{*}SGLGSRRLVGDPMIS^{*}PVRGQVLQARAPW
 VKHFIRDGGGLTYVYPGMSYVTLGGTRQKGDWNRSPDAEL^{*}SREIFSR^{*}CCTLEPSLH^{*}RAYDIKEK^{*}VGLRPS
 R^{*}PGVRLQKEILVRGQQLPVVHNYGHGSGGISVHWGSALEATRLVMECIHTLRTPASLSKL

TRTRPLE - GFP Tag - V

Restriction Sites:

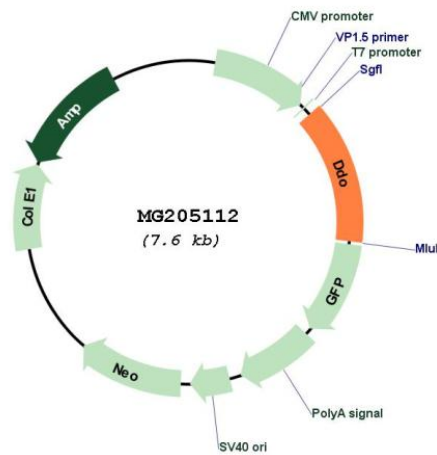
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_027442

ORF Size: 1023 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:	<ol style="list-style-type: none">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_027442.3 , NP_081718.2
RefSeq Size:	2968 bp
RefSeq ORF:	1026 bp
Locus ID:	70503
UniProt ID:	Q922Z0
Cytogenetics:	10 B1
Gene Summary:	Selectively catalyzes the oxidative deamination of D-aspartate and its N-methylated derivative, N-methyl D-aspartate.[UniProtKB/Swiss-Prot Function]