

Product datasheet for **MG219407**

Mpdz (NM_010820) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mpdz (NM_010820) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mpdz
Synonyms:	A1225843; B930003D11Rik; MUPP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219407 representing NM_010820 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGGAACCATAGACAAAAATCGGGCCCTGCAGGCAGCAGAGCGCTTGCAAAGCAAGCTGAAAGAAC
GCGGGGATGTTGCAAATGAAGACAACTGAGTCTCCTGAAGTCTGTCCTGCAGAGTCCACTCTTCAGTCA
GATCTTGAACCTTCAGACTTCACTACAGCAGCTAAAAGACCAGGTAACATTGCTACTTTGGCAACTGCA
GCTGCTGACCATGCCACACTCCTCAGTTCAGCTCTGCTGTCTTCTAACCTGCAAAGTGAAGTCACTTC
TGCTGTCTCCAAATCATGGGAACCTGGAAGCCCTCCTGGACCTGGTGTCCAGCTGTCATGGATGGAA
GCCTACCTGTGACGAACCTGATCAGCTCATTAAAAATATGGCCAGGGTCCCATGTGGAAATATTTGAG
CTCCTTAAACCTCCGTGTGGAGGCTCGGCTTTAGTGTGTTGGGCTCAGAAGTAAAAACAGGGGCGAGC
TGGGGATATTTGTCCAGGAGATTCAGGAGGGCAGTGTGGCTCACAGAGATGGCAGACTTAAGGAAACCGA
CCAGATCCTCGCCATCAATGGCCAGGTCCTAGACCAGACGATCACACACCAGCAGGCCATTAGCATCCTG
CAGAAGGCCAAAGACACCGTGCAGCTTGTGATTGCCAGAGGATCTTTGCCCGGCTCCAGCCACGGA
TTTCCCGCTCTCCATCAGCAGCCAGCACCATTTAGCCCACTCGAATCCAATGCACTGGCAGCATGTGGA
GACCATAGAGCTGGTAAACGATGGTCCGGCTGGGTTTGGCATCATAGGAGGAAAGGCGACTGGTGTCT
ATAGTGAAGACAATCTTGCTGGAGGAGTAGCCGACCAGCATGGGCGATTATGCAGTGGAGACCACATTC
TAAAGATTGGTGACACTGACCTAGCAGGAATGAGCAGTAGCAAGTAGCAAGTCCCTTAGGCAGTGTGG
AAATAGAGTTAAGCTGATGATTGCCAGAGGTGCTGTAGAAGAAACGCCAGCATCCTCCTTTGGGCATC
ACCCTCTCCTCTCCACATCTTCTACTTCAGAGATGCGAGTTGATGCTTCTACTCAGAAAAATGATGAAA
GTGAGACGTTTGTGTTGAACTCACTAAAAATGTCCAAGGACTAGGAATTACCATTGCTGTTATATTGG
AGATAAAAAATTAGAGCCTTCAGGAATCTTTGTAAGAGCATTACAAAAAGCAGTGTGTGGAGCATGAT
GGAAGAATCCAAATTGGAGACCAAAATTAGCAGTCGATGGCACCAACCTTCAGGGTTTTACCAACCAAC
AAGCAGTAGAGGTGTACGTACACAGGACAGACAGTGCCTGACACTGATGAGGAAGGGAGCAAGCCA
GGAAGCAGAACTTACGTCAAGAGGAGACTGCAAAGATGTGGACCTCCAGCTGAAAAATTGTGAAAAG



[View online »](#)

GATGAAGAATCTTTATCATTGAAGAGAAATACCAGCATATTACCGATTGAAGAAGAAGGGTTTCCACTGT
TGTGAGCTGAGCTGGAAGAAGCTGAAGATGTGCAGCAAGAGGCTGCCCTGCTGACCAAGTGGCAGAGGAT
TATGGGAATTAACATGAAATAGTGGTGGCTCATGTGAGCAAGTTTAGTGAGAATAGTGGCTGGGAATA
AGTCTGGAGGCAACTGTGGGCCACCACTTCATCCGGTCTGTGCTACCAGAAGGCCCTGTGGGACACAGCG
GGAAGCTCTTCAGTGGAGATGAGCTCTTGAAGTGAATGGTATAAATTTGCTTGGGAAAACCATCAAGA
TGTGGTCAATATTTAAAAGAGTTGCCTATAGATGTGACAATGGTATGCTGCCGTCGAGCTGTGCCACCC
ATTGCCCTACAGAAATGGATAGCCTGGACATAAATGATCTTGAACCTCACAGAAAAGCCTCATATAGATC
TAGGAGAGTTTCATTGGGTCCCTCAGAGACAGAGGATCCCATGCTGGCGATGTCTGATGTGGATCAGAAATGC
AGAGGAGATTCAAACACCGCTGGCCATGTGGGAGGCAGGCGTCCATAGAGCTGGAGAAAAGGAGC
AGAGGCCCTGGCTTCAGTATTTAGACTATCAGGACCCGATCGATCCAGCAAACACAGTAATTGTCAATC
GTTCCCTGGTGCCTGGTGGCATAGCTGAAAAGGATGGACGGCTTTTTCCAGGAGACAGGCTCATGTTTGT
CAATGACATTAATCTGAAAACAGCACTCTTGAAGAGGCCGTGGAAGCCCTGAAGGGAGCGCCCTCAGGG
ATGGTGGGATAGGAGTGGCCAAGCCTTTGCCTCTGTACCAGAAGAAGGGTATGTTTCAGCCAAGGAAG
ACGCCCTTCTCTGCTCACCGCACGCTGCAAGGAGTCAAGGCTGTCCGACAAAGCCCTCTCAGGGCTGA
CTTGGCTCTGATAGATACACCTGATGCTGAGTCCATAGCTGAATCACGATTTGAATCTCAGTTCTCTCCT
GATAACGACAGTGTCTACTCTACACAAGCCTCCATCTTCTCTTCATGATGGTACTTGCAGTGTGGCA
TGAACACGCCCCCTCTTCCATCATCTCTCCCAAGGATGTGACCAGCAGTTCTGAAGTGTGCTTGG
TCTGCAATTTGCCTGGAAGAACTCTACACACAGAACCTCCTTCAGAGACAGCATGCTGGCTCTCCTCCC
ACAGACATGAGGCCAGCACCCACCTCTGGTTTCCCATCAGTGACTACACAACCTACAAATGCTGTGAAAC
AAAAATACGAATGTGCAAACCCAGTAGCGTGGCCTCACTCGCAGTTACCAAGTAGCCTAAGCACCTCCGA
GCTTGTCTCTGCACTGCCTGTGTGGCTCAGAAGTATTTAACTGACCAGAGCTCTCTGGCATCTGATGCT
GAGTCTGTCAACTGCAGAGTATGTCCCAGGAAGCTTTTGAAGAGACCCTTACTATAGCAAAAAGCCAGCT
CCAGCCTAGGTATGACAGTAAGTGCCTAAAGATGGCCTGGGAGTATTGTGCGGAGCATATTCATGG
GGGCGCCATTAGTGTGATGGCCGGATTGCTGTGGGCGACTGCATTTTGTCCATTAATGAAGAATCCACC
ATCAGTCTAACCAATGCCAGGCACGGCCATGCTCAGAAGACATTCTCTAATTGGACCTGATATCAAAA
TTACTTACGTGCCTGCAGAACATTTGGAAGAGTTCAGAGTAAGTTTTGGTCAACAAGCTGGAGGAATAAT
GGCACTGGATATTTTTCTTCACTGACAGAGACATTCCAGAACTCCAGAGCGAGAAGAAGGAGAA
GGGGAAGAAAGTGAAGTGCAGATGCTGCCTACAGCAGCTGGAGCCAGCCACGGAGGGTGGAACTTTGGA
GAGAACCAAGCAAGTCTTGGGCATCAGCATTGTTGGTGGTGGAGGAATGGGAGCCGGCTGAGCAATGG
TGAGGTGATGAGGGCATTTTCATCAAACATGTTCTTGAAGACAGTCCAGCTGGCAAAAATGGAACCTCTG
AAGCCAGGAGACAGAATAATTGAGGTGGATGGGATGGACCTCAGAGATGCAAGCCATGAACAAGCTGTGG
AAGCCATTTCGAAAGCAGGCAACCCTGTAGTGTATGTTACAGAGCATTATAAAGCAGCAAGGAAATC
CCCTTTGCCTTCTTGGCCACAGCCTTTACCCTAAGTACAGCTTCAGCAGCACTAACCCATTTGCAGAC
TCTCTCCAGCTCACCCTGACCAGGCACCCAGCCAGTCCAGAACTGAGACAGAGAAGCCTGCATTGTGCA
ATGTTCTCCCTCCTCTCCTCAGTGTCTCAGAAATGGGTAGTATTGTGCACAGCCATCTGCAACCCG
AGTCTCAGAAGATGAGGACAAAGAGGATGAGTTTGGTTACAGCTGGAAAAATATCCAGGAGCGCTATGGA
AGCCTGACAGGTGAGTCCATGTGATTGAGCTGGAGAAAGGGCAGAGCGGGTGGGTCTGAGTCTTGGT
GGAACAAAGACCCAGCAAGATGAGTGTGTTTATAGTGGGATTGATCCCACTGGAGCAGCGGGGAGAGA
TGGCCGACTACAGATTGCCGACGAGCTTTAGAGATCAATGGCCAAATATTGATGGCAGAAAGTCAATCAG
AATGCTTCAATCAATTATTAATGTGCTCCATCTAAAGTAAAAATAATTTTATCAGAAATGAGATGAG
TGAACAGATGGCCGTATGCTCCTGGAATTGCAGCAGACTCCTCGTCTCCACCTCAGACAGTCTCAGAA
CAAGGAGGTGGAACCATGCAGTACTACATCTGCTTCCGCTGCGGACCTCAGCTCACTTACAGATGTGTAC
CAGCTGGAGCTTCTAAGGATCAAGGAGTTTAGGCATTGCTATCTGTGAGGAAGACACAATCAACGGAG
TCATGATCGAAAGCCTAACTGAGCACGGGGAGCAGCCAAAGGATGGAAGGCTCAAACCTGGAGATCACAT
CTTGGCTGTAGATGATGAAGTTGTTGCTGGGTGCTCTGTTGAAAAGTTTATCAGCCTTCTGAAGACGGCA
AAGGCAACTGAAAAGTACTGTTGAGCTGAGAAATCCAGCTTGTCCAGCTGTTCTTCTCAGCTGTAA
CAGTCACTGGAGAAAGGAAAGACAACCTCCAGACTCCTGCAGTCCAGCTCCAGACTGGAACCCATCCC
AAGTACAAGCAGTCTCCACACAGCAGTCTTTGCTTCTGACCTGCCACCTGCCCATCATCCCAGGC
TGTGAGACAACAATTGAGATTTCAAAGGCCAAACAGGCCTGGGACTGAGTATTGTTGGGGCTCAGACA
CACTGCTGGGTGCTATTATATCCATGAAGTTTATGAAGAGGGAGCAGCGTGTAAAGATGGAAGACTATG
GGCTGGAGACCAGATTTAGAGGTAATGGGATTGACTTGCAGAAAGGCTACACATGATGAAGCAATCAAT
GTCCTGAGGCAGACGCCCTCAAAGAGTACGGCTGACGCTTACCGAGATGAGGCCCATACAAGAGGAGG

ATGTCTGTGATACCTTCACCATCGAGCTGCAGAAGAGGCCAGGCCAAAGGCCTTGGGTTGAGTATTGTTGG
CAAAGAAATGACACTGGAGTATTTGTATCAGACATTGTCAAGGGAGGCATTGCAGACGCCGATGGGAGA
CTGATGCAAGGGGACCAGATTTTAAATGGTGAATGGAGAAGATGTCCGTCATGCCACCCAGGAGGCAGTCC
CTGCCCTGCTAAAGTGTTCCCTAGGTGCAGTAACCCTGGAGGTTGGAAGAGTCAAAGCTGCCCCATTCCA
CTCAGAACGGAGGCCTTCTCAAAGCAGCCAGGTGAGTGAGAGCAGCCTGTCATCTTCACTCCCCACTT
TCTGGAATAAATACATCAGAGTCATTGGAAAGTAACTCGAAGAAAAATGCATTAGCATCTGAAATTCAGG
GACTAAGAACAGTCGAAATAAAAAAGGGCCTGCTGACTCGCTGGGACTCAGCATTGCTGGAGGAGTGGG
CAGCCCGCTCGGAGATGTCCCTATATTTATTGCGATGATGCACCCAAATGGTGTTGCAGCTCAAACACAA
AAACTCAGAGTTGGGATAGGATTGTCACCATCTGTGGCACATCCACGGATGGGATGACTCACACACAGG
CGGTAACTTGATGAAAAATGCCTCAGGCTCCATTGAAGTACAGGTGGTTGCTGGAGGAGATGTGAGTGT
GGTCACGGGTCATCAGCAAGAACTTGCCAATCCTTGCTTGTCTTCACTGGGCTGACATCAAGCAGTATA
TTTCCGGATGATTTAGGCCCTCCACAGTCTAAGACCATTACGCTAGACCGAGGACCAGATGGCTTAGGCT
TCAGCATTGTAGGCGGCTATGGCAGCCCTCATGGAGACTTACCAATTTATGTGAAAACAGTGTGTTGCAA
GGGAGCAGCAGCAGAAGATGGGCGTCTAAAAGGGGCGATCAGATCATTGCTGTCAATGGGCAAAGTCTA
GAAGGAGTGACCCATGAAGAAGCTGTTGCCATCTCAAGAGGACAAAGGGCACCGTCACCCCTCATGGTTC
TCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG219407 representing NM_010820
 Red=Cloning site Green=Tags(s)

MLETIDKNRALQAAERLQSKLKERGDVANEDKLSLLKSVLQSPLFSQILNLQTSLQQLKDQVNIATLATA
 AADHAHTPQFSSAVISNLQSESLLLSPNHGNLEALPGPGAPAVMDGKPTCDELDQLIKNMAQGRHVEIFE
 LLKPPCGGLGFSVVGRLRSENREGELGIFVQEIQEGSVAHRDGRKQKEDQILAINQVLDQTITHQQAISIL
 QKAKDVTQQLVIARGSLPPVSSPRISRSPSAASTISAHSNPMHWQHVEITIELVNDGSGLGFIIIGKATGV
 IVKTILPGGVADQHGRLCSDHILKIGDIDLAGMSSEQVAQVLRQCGNRVKLMIARGAVEETPASSSLGI
 TLLSSSTSTSEMRVDASTQKNDESETFDVELTKNVQGLGITIAGYIGDKKLEPSGIFVKISITKSSAVEHD
 GRIQIGDQIIAIVDGTNLQGFQTNQAVEVLRHTGQTVRLTLMRKGASQEAELTSRGDTAKDQVLDLPAENCEK
 DEESLSLKRNTSILPIEEEGFPLL SAELEEAEDVQQAALLTKWQRIMGINYEIVVAHVSKFSENSGLGI
 SLEATVGHFIRSVLPEGPVGHSGKLFSGDELLEVNGINLLGENHQDVVNILKELPIDVTMVCCRRTPVP
 IALSEMSLDINDLEL TEKPHIDLGEF IGSETEDPMLAMSDVDQNAEEIQTPLAMWEAGGSIELEKGS
 RGLGFSILDYQDPIDPANTVIVIRSLVPGGIAEKDGRLEFPGDRLMFVNDINLENSTLEEAVEALKGAPSG
 MVRIGVAKPLPLSPEEGVYSAKEDAFLECSPHACKESGLSDKALFRADLALIDTPDAESIAESRFESQFSP
 DNDSVYSTQASIFSLHDGTCSDGMNYGSPSPSPPKDVTSSSEVVLGLHLLEELYTQNLQRQHAGSPP
 TDMRPAPTSGFPIISDYTTTNAVEQKYECANPVAVPHSQPLPSSLSTSELAPALPAVAQKYLTDQSSLASDA
 ESVNLQSMSQEAFFERTVIAKSSSLGTMVSANKDGLGVIVRSIIHGGAISRDRGIAVGCILSINEEST
 ISLTNAQARAMLRHSLIGPDIKITYVPAEHLLEFRVSVFQQAGGIMALDIFSSYTRDIPELPEREEGE
 GEESELQNAAYSSWSQPRRVELWREPSKSLGISIVGGRMGSRNNGEVMRGIFIKHVLEDSPAGKNGTL
 KPGDRIIEVDGMDLRDASHEQAVEAIRKAGNPVFMVQSIINRPRKSPLPSLPHSLYPKYSFSSSTNPFAD
 SLQLTTDQAPSQSESETEKPALCNVPPSSPSVFSSEMGSDCAQPSATAVSEDEDEKDEFYGSWKNIQERYG
 SLTGQLHVIELEKQSGSLGLSLAGNKDRTRMSVFIGIDPTGAAGRDGRLQIADELLEINGQILYGRSHQ
 NASSIIKCAPSKVKIIFIRNADAVNQMAVCPGIAADSPSSTSDSPQNKEVEPCSTTSASAADLSSLTDVY
 QLELPKDQGGGLGIAICEEDTINGVMIESLTHEGGAACKDGRLKPGDHILAVDDEVVAGCPVEKFI SLLKTA
 KATVKLTVRAENPACPAVPSSAVTVSGERKDNSQTPAVPAPDLEPIPSTSRSSSTPAVFASDPATCPIIPG
 CETTIEISKGQTGLGLSIVGSDTLLGAIIEHEVYEEGAACKDGRLWAGDQILEVNGIDLKATHDEAIN
 VLRQTPQRVRLTLRDEAPYKEEDVCDTFTIELQKRPKGLGLSIVGKRNDTGVFVSDIVKGGIADADGR
 LMQGDQILMVNGEDVRHATQEAVALKCSLGAVTLEVGRVKAAPFHSERRPSQSSQVSESSLSSFTPPL
 SGINTSESLESNSKKNALASEIQGLRTVEIKKGPADSLGLSIAGGVGSPLDVPIFIAMMHPNGVAAQTQ
 KLRVGDRIVTICGTSTDGMTHTQAVNLMKNASGSIEVQVVAGGDVSVVTGHQQELANPCLAFGLTSSSI
 FPDDLGPQSKITLDRGPDGLGFIVGGYGSPhGDLPIYVKTVFAKAAAEDGRLKRGDQIIAVNGQSL
 EGVTHEEAVAILKRTKGTVTMLVLS

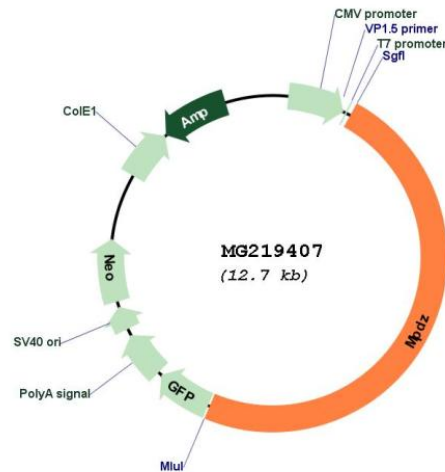
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010820

ORF Size: 6165 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:	<u>NM_010820.3</u> , <u>NP_034950.2</u>
RefSeq Size:	7515 bp
RefSeq ORF:	6168 bp
Locus ID:	17475
UniProt ID:	<u>Q8VBX6</u>
Cytogenetics:	4 38.0 cM
Gene Summary:	Interacts with HTR2C and provokes its clustering at the cell surface. Member of the NMDAR signaling complex that may play a role in control of AMPAR potentiation and synaptic plasticity in excitatory synapses (By similarity).[UniProtKB/Swiss-Prot Function]