

## Product datasheet for **MG214053**

### Cyp2a22 (NM\_001101467) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp2a22 (NM_001101467) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyp2a22
Synonyms:	EG233005
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG214053 representing NM\_001101467  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGGGCTCAGGGCTGCTCCTCGTAGCCATACTGGCCTTCCTGAGTGTATGGTCTTGGTGTCTGTCT  
 GGCAGCAGAAAATCAGGGGGAAGTTGCCCCAGGACCCATTCTTTGCCTTTCATTGGAAAATACCTGCA  
 ACTGAATAGAAAAGATGTATACAGCTCCATCACACAGCTCCAAGAGCACTATGGCCCTGTGTTCACCATC  
 CACCTTGGGCCTCGCCGGTTGTGGTGCTATATGGATACGATGCAGTCAAAGAGGCTTTGGAGGACAACG  
 CTGAGGAGTTCAGTGGACGAGGCGAACAGGCCACCTTTAATACTCTTCAAAGGCTATGGTGTGACATT  
 CAGCAATGGGGAACGAGCCAAACAACACTCAGACGCTTCCATAGCCCACTGAAGGATTCGGCTTGGGC  
 AAGCGAGGTATGGAGGAGCGCATCCAGGAGGAGGAGGCTGTTTGTATCAAGATGTGCAGGGCACTGTG  
 GAGCCCCATTGACCCACCATGTACCTGAGCAAAACAGTCTCCAATGTCATTAGCTCCATTGTCTTCGG  
 GGACCGCTTCAACTATGAGGACAAGAGTTCTCTGCTACTGCTGCAGATGATGAGTCAAATGAACCAATTT  
 GCTGCTTCACCCACAGGTCAGCTCTATGACATGTTCCATTCAAGTACCTGCCCCGACCACAGC  
 AACAGATCATCAAGGATTCTCATAAACTGGAAGACTTCATGATACAGAAAAGTGAAGCACAACCACAGTAC  
 CCTGGACCCCAATTTCCACGAGGCTTCATTGACTCCTTTCTCATCCACATGCAAAAAGGAGAAAAATTTT  
 AATTCAAGATTTACATGAAGAACCTAGTATGACATCATTGAACCTCTTCTTGGTGGTCTGAGACAG  
 TCAGCTCCTTACTACGATATGGCTTCTGCTACTAATGAAGCATCCAGATGTGGAGGCCAAGGTCCATGA  
 GGAGATTGACCGAGTGATTGGCAGGAACCGACAGCCCCAATATGAGGACCATATGAAGATGCCCTACACC  
 CAGGCTGTGATCCATGAGATCCAGAGATTTTCTAACTTTGCTCCCTTGGGCATTCTCGAAGGATTACCA  
 AGGATACTTCTTCCGTGGCTTCTCTCCCAAGGGCACTGATGTGTTCCCTATAATGGGTTCTCTGAT  
 GATAGATCCAAAAGTTCTTCTCTAGCCCCAAAGACTTCAACCCACAGCACTTCTGGATGACAAGGGACAG  
 TTGAAGAAGATCCCTGCTTTTCTGCCCTTTTCCATTGGGAAGCGATCCTGTTTGGGATACAGCCTGGGTA  
 AGATGCAGCTGTTCTGTTCTTACCACCATCTTGAGAACTTCCGATTCAAATTTCCAAGGAACTAGA  
 AGATATCAATGAGTCCCCCAAACAGAGGGGTTTACCAGGATCATACAAAGTACACCATGAGCTTCGTG  
 CCCATC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG214053 representing NM\_001101467  
 Red=Cloning site Green=Tags(s)

MLGSLLLLVAILAFLSVMVLVSVWQKIRGKLPPIPLPFIGNYLQNRKDVYSSITQLQEYHGPVFTI  
 HLGPRRVVVLGYDAVKEALEDNAEEFSGRGEQATFNLFKGYGVTFNGERAKQLRRFSIATLKDFGLG  
 KRGMEERIQEEAGCLIKMLQGTGAPIDPTMYLSKTVSNVISSIVFGDRFNVEDKEFLSLLQMSQMNQF  
 AASPTGQLYDMFHSVMKYLPGPQQQIIKDSHKLEDFMIQKVKHNHSTLDPNSPRGFIDSFLIHMQKEKNF  
 NSEFHMKNLVMTSLNLFAGSETVSSLLRYGFLLLMKHPDVEAKVHEEIDRVIGRNRQPQYEDHMKMPYT  
 QAVIHEIQRFNSFAPLGIPIRRITKDTSFRRGFFLPKGTDFPIMGSLMIDPKFFSSPKDFNPQHFLDDKGQ  
 LKKIPAFLPFSIGKRSCLGYSLGKMQFLFFTTILQNFRRKFKPRKLEDINESPKPEGFTRIIPKYTMSFV  
 PI

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



*EcoRI*
*BamHI* *KpnI*
RBS
Kozac  
Consensus
*SgfI*
*AscI*

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

*HindIII*
*NheI* *RsrII*
*MluI*
*NotI*
*XhoI*
GFP Tag

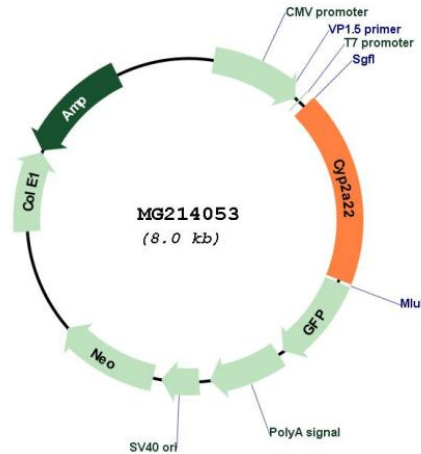
CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---  
T R T R P L E
M E S D - - -

*PmeI*
*FseI*

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT  
- - - E E R V
Stop

Plasmid Map:



ACCN: NM\_001101467

ORF Size: 1476 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\\_001101467.1](#), [NP\\_001094937.1](#)

**RefSeq Size:** 2226 bp

**RefSeq ORF:** 1479 bp

**Locus ID:** 233005

**Cytogenetics:** 7 A3