

## Product datasheet for **MG224214**

### **Mamld1 (NM\_001081354) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mamld1 (NM_001081354) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mamld1
Synonyms:	G630014P10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG224214 representing NM\_001081354  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATGACTGGAAAAGTCGGCTTGTAAATCGAGAACATGCTTCCCATTTC AACATGGTGGGAAATCGTC  
 AGGAGACCAGAAAAGCTCCAGGAATCGGGAACAGTAAGAGAAGACAGGAAGGAGAGAACTCCACTTCAC  
 AGGCATGGCTGATGGGAGCTATCCTAATAAAATCAAGAGACCTTGCCTTGAAGATGTCACCTGTCTATG  
 GGCCAGGTGCCACCCTACTTCTCTCTACAGAGATGCAGATGCCACATTAACATGAATCCCCTT  
 CTGCAGACCTGGGAGTGGCTGGCCAATCATTACTCCTTGAGAACAACCCTCTGGACAGTAATGTTGTGAA  
 TAGCAGTGCTATGGGCTCACCATTGGGGTGCCATCAACTGCAGACACGGGGCTGAAAGGACATGCTGTT  
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 TCTGGTTTTACATAACCCCCAGGCCCTCTTGGTCCCCCTGCCAAGCTTCCAGTTCAGATGCCACATATG  
 GAAAGCCTTGGATCCAGCAAGGAGTTTGCATCTAGCTGCAGTCAAGTTGCTGGCAGATCACTACCCATCA  
 TGCCCTCCTCCACAGGGATGAGCTACTCATTCCCTTCCAGCAGTAAGCAGATAGTCTCATCCAGTCTTTC  
 AACAGCACAGGCTCAGGTCAAAAACAGGTCCAGAACATGCTCCCTGTCCTACTATGCCTCCATTATCTGTG  
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 TCCAGTAGCTTATCTGGCAGTGTGTGCAAAGCTCGCCAATGCCTTACTTTCCAGCATGGCCCCAGCA  
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 GCCCGGCTTGGCACAGCAGTCTTCACTCCACAATACTCTCTGATCAGGAGCCTCACTCCACCAGCAA  
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 CAGCAGCAGCAGCATCAGGCAAATTCATCTTTAAGCCTATGACCAGCAGCCAGCAACCTAAAACCTTGA  
 GCATGATCATGCAGCAGGGCCTATCAAGTTCCAGTCCAGAAGCACCTGAGCCCTTACCTTCCAGCAACAC  
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 CAACAACAACAGCAGCAGCAACCTGATCAGTCTTCACTTCTTCTGACAGCAGATAATGCAGCAACCCAGC  
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 CATGTGCCACCATTAACCTTACTCATGTAGACAAAGCCTGCAAGCTTGGGAAGCCAGGCCTCCCCATG  
 TCAGCCTGGGGCAGCAGCCCCATCCCGCAGGCCCTGGGGAGTGAGTCTTCTGCCCGCAGCTCCTT  
 TGCTCATGAGCTGGCCCAGTACATCCACCTCCTCGTACAACACCTCAGAGGCAGCCCCCTGGGGCGGC  
 TGGGATCCGAAGCCTGGAGGCAGGTGCCTGCTCCACTACTGCCTAGCTGCGATGCTGCAGCCAGAGAAG  
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**ACCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

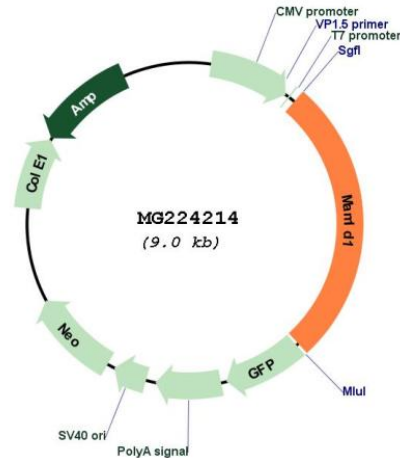
**Protein Sequence:** >MG224214 representing NM\_001081354  
 Red=Cloning site Green=Tags(s)

```
MDDWKSRLVIENMLPHFNMVGNRQETRKLQESGTSKRRQEGENFHFTGMADGSYPNKIKRPCLEDVTL SM
GPGAHTSLSTEMQMPTLNMNPTSADLGVAGQSLLENNPLDSNVVNSSAMGSPFGVPSTADTGLKGHAV
PYYEKNNSMPAVDQELQDLEELTKIQEPSSNDLDLEKILGSKPEEPLVLHNPQAPLGPPAKLPVQMPHM
ESLGSSKEFASSCSQVAGTSLPIMPSSTGMSYSIPSSSKQIVSSSSSTAQAQVKNQVQNMLPVTMPPLSV
PQWHHAHQKALAASKQGSATKQGSNRNWSLPPPGLSPPYLPVPSHPHPPPPPPPPPFSPQNFTASCMS
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HLISALPTSTPGSPPYRPNLSSPGLPQQSFTPQYSLIRSLTPTSNLLSQQQQQQQQQQQQQQQQQQQ
QQQQHQANSIFKPM TSSQPKT L SMIMQQLSSSSPEAPEPFTFSNTKPLSHFVSESPQKMASMSTHSR
QSSLLHYLPQATPAHAPSATASSTATATLQLQHQQHQQHHHQQHHHQQHHHQQHHHQQHHHQQHHHQQ
QQQQQQQPDQSSFLQIMQQPQRFQRMASDMPALPGQGCCHRCAWTSTALWLEHQHQWNSLSTHG
HVPPSNLTHVDKACKLGEARPPHVSLGRQPPSRQALGSESF L PGSSFAHELARVTSTSSYNTSEAAPWGG
WDPKAWRQVPAPLLPSCDAAAREAEIRSYGNDP
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**Plasmid Map:**


**ACCN:** NM\_001081354

**ORF Size:** 2409 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\\_001081354.2](#), [NP\\_001074823.2](#)

**RefSeq Size:** 3352 bp

**RefSeq ORF:** 2412 bp

**Locus ID:** 333639

**UniProt ID:** [P0C6A2](#)

**Cytogenetics:** X A7.3

**Gene Summary:**

Transactivates the HES3 promoter independently of NOTCH proteins. HES3 is a non-canonical NOTCH target gene which lacks binding sites for RBPJ (By similarity). Required for testosterone production.[UniProtKB/Swiss-Prot Function]