

## Product datasheet for **MG226164**

### Itgal (NM\_008400) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Itgal (NM_008400) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Itgal
Synonyms:	(p180); Cd11a; LFA-1; LFA-1A; Ly-15; Ly-21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226164 representing NM_008400 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTTTCCGGATTGCGGGCCCCAGACTTTTGCTACTGGGACTCCAGCTGTTTGCCAAGGCCTGGAGCT  
ACAACCTGGACACACGGCTACGCAGAGCTTCTGGCACAAGCTGGAAGACATTTGGGTACCAGGTCTT  
GCAGATTGAAGATGGGGTTGCTGGGAGCCCCAGGTGAGGGGGACAACACGGGAGGCCTCTATCACTGC  
CGAACAAGCAGCGAGTTCTGCCAGCCAGTCAGCCTACATGTTTCTAACCATACCTCAAGTACTTGGGAA  
TGACGCTGGCAACAGATGCCGCCAAGGGAAGCCTTTTGGCCTGTGACCCTGGACTGTCTCGGACATGCGA  
TCAGAACACTTACCTCAGTGGCCTCTGCTACCTCTTCCCCAGAGTCTGGAGGGACCTATGTTACAAAAT  
CGTCCCGCCTATCAGGAATGTATGAAGGGCAAAGTCGACCTGGTGTCTTCTGTTTCGATGGCTCACAGAGCT  
TGGATAGAAAGGACTTTGAAAAATCCTGGAAATCATGAAGGATGTGATGAGGAAGCTCAGCAATACTTC  
CTACCAGTTTGTCTGCCGTCCAGTTCTCCACAGACTGCAGAACAGAATTTACTTTCTTGGACTACGTTAAG  
CAGAACAAGAACCCCGATGTTCTGCTAGGCAGCGTGCAGCCCATGTTCTTGTGACCAATACCTTTCGTG  
CCATCAACTATGTGGTGGCACACGTGTTCAAAGAAGAGTCTGGTGCCAGGCCGGATGCTACCAAGGTGCT  
TGTCATCATTACAGACGGGGAGGCAAGTGATAAAGGCAACATCAGTGGCGCCACGACATAACCCGCTAC  
ATCATCGGGATTGGCAAGCATTTTGTGAGCGTACAAAAGCAAAAGACGCTCCACATATTTGCCTCAGAAC  
CTGTAGAGGAATTTGTGAAGATTCTGGACACCTTTGAGAAGCTGAAGGATCTTTTTACTGACCTGCAGAG  
GAGGATTTATGCTATTGAGGGCACAACAGACAGGACCTGACATCCTTTAACATGGAACCTCTCCTCCAGC  
GGGATCAGCGCAGACCTCAGCAAGGGCCATGCAGTTGTGGGAGCTGTTGGGGCTAAGGATTGGGCCGGG  
GCTTTCTGGACCTGCGTGAAGACCTGCAGGGTGCACATTTGTTGGCAGGAACCGCTGACCTCAGATGT  
GAGAGGGGGCTACCTGGTTTACTGTGGCCTGGATGACCTCCCGGAGCTCCAGACCCCTGCTGGCAGCA  
GGAGCCCCACGGTACCAGCATGTGGACAAGTACTGCTTTTCCAAGCCCCAGAGGCTGGAGGACGTTGGA  
ACCAAACCCAGAAGATAGAAGGGACTCAGATCGGATCTTACTTTGGTGGGAACTATGTAGTGTTGACCT  
GGACCAAGATGGCGAGGCAGAGCTGCTGCTGATTGGAGCACCCCTGTTCTTTGGGGAGCAGAGAGGAGGC



CGAGTGTTCACCTACCAGAGAAGACAGTCGCTGTTTAAAATGGTCTCAGAGCTACAGGGTGACCCTGGCT  
ACCCGCTTGGTCGGTTTGGAGCCGCCATAACTGCCCTGACGGACATCAATGGGGATAGGCTGACTGATGT  
GGCTGTGGGAGCCCTTTGGAGGAGCAGGGTGTGTGTACATCTTCAATGGGAAGCCTGGTGGGCTCAGT  
CCCCAGCAAGCCAGCGTATAACAAGGAGCCAGGTGTTCCAGGAATCCGGTGGTTTGGCCGCTCCATCC  
ATGGGGTGAAGGACCTTGGAGGGGACAGGCTGGCAGATGTGGTTGTAGGAGCTGAGGGTCGGGTGGTTGT  
GCTGAGCTCCAGGCCGGTGGTGGATGTGGTCACTGAGCTGTCGTTCTCCCAGAGGAAATCCCAGTGCAC  
GAGGTGGAGTGCCTCTACTCAGCCAGGGAGGAGCAGAAACACGGAGTCAAGCTCAAGGCATGCTTCCGGA  
TCAAGCCCTCACGCCACAGTTTCAAGGTCGCCTGCTTGCCAACCTCAGCTACACCCTGCAGCTGGATGG  
CCATCGGATGAGGAGCCAGGGTGTTCAGATGGAAGCCACGAGCTCAGTGGAACACCTCCATCACC  
CCAGATAAATCCTGCTTGGACTTCCACTTCCACTTCCCGATCTGCATTCAAGACCTCATCTCCCCTATCA  
ATGTCTCCCTGAATTTCTCTTTTTGGAGGAAGAAGGAACACCAAGGGACAAAAGGTGGCAGGGCCAT  
GCAGCCTATCCTGAGACCTTCAATCCACACAGTACTAAGGAGATCCCTTTTGAAGAAGTGTGGTGA  
GATAAGAAGTGTGAGGCAAACCTGACCCTGTATCCCCTGCCAGATCTGGACCCCTGCGTCTGATGTCT  
CTGCCAGCCTTGTGTGGAGTGGACACTGAGCAACTCAGGGGAAGATGCCTACTGGGTGCGATTAGACCT  
GGACTTCCCTCGGGACTCTCCTCCGAAAGTGGAGATGCTTCCAGCCACACAGCCGAATGCCTGTGAGC  
TGCAGGAGCTCACCCAGGGTCAAGTCTCCTGACTAAGACACTGAAATGCAATGTAAGCTCTCCATCT  
TCAAAGCAGGCCAGGAGGTGAGCCTCCAGGTGATGTTAACACGCTACTCAACAGCTCCTGGGAAGACT  
CGTCGAGCTGAATGGCACTGTGCACTGTGAGAATGAGAAGTCAAGCCTCCAGGAGGACAACCTCAGCCGCC  
ACCCACATTCTGTCTGTACCTGTCAACATCCTTACTAAGGAGCAGGAGAAGTCCACCCTCTATATCA  
GTTTCACCCCTAAAGGTCCCAAGACCAACAAGTCCAGCATGTCTACCAGGTGAGGATTCAGCCATCTGC  
CTATGACCACAACATGCCCACTAGAGGCCTTGGTTGGGGTCCCCGGCCTCACAGTGAGGACCTCATC  
ACATACACATGGAGTGTACAGACGGATCCCCTTGTCACTTGCCACAGCGAGGACCTGAAGAGGCCGTCCA  
GCGAAGCTGAGCAGCCTTGTCTGCCTGGAGTCCAGTCCGCTGTCCAATTGTCTTCAGGCGGGAGATCCT  
CATCCAAGTGACGGGGACCGTGGAACTCTCAAGGAAATCAAGGCCTCCTCCACACTCAGCCTCTGCAGC  
TCACTCTCCGTCTCCTTCAACAGCAGCAAGCATTTCCATTTGTATGGCAGCAAAGCCTCTGAGGCCAGG  
TCCTCGTGAAGGTTGACCTGATCCACGAGAAGGAGATGCTTACGTGTACGTGCTCAGCGGCATTGGGGG  
CCTCGTCTTCTGTTCTGATTTTCTGGCGCTCTACAAGGTTGGCTTCTTCAAACGGAACCTGAAGGAG  
AAGATGGAGGCTGATGGAGGTGTTCAAATGGAAGCCCTCCAGAAGACTGACCCTCTGGCAGTACCTG  
GGGAAGAGACCAAGATATGGGCTGTCTAGAGCCCTCCGGGAGAGTGACAAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG226164 representing NM\_008400  
 Red=Cloning site Green=Tags(s)

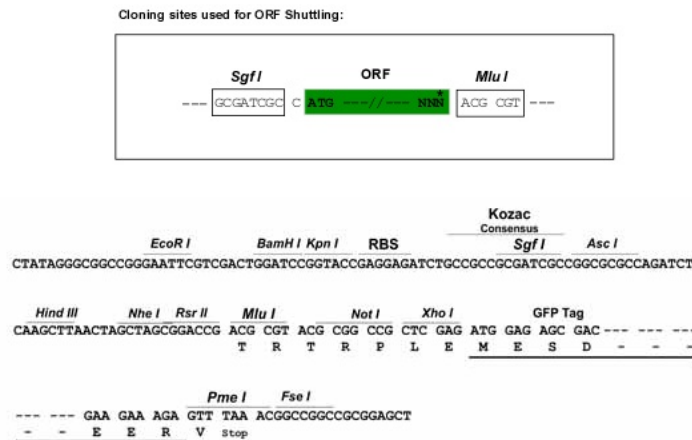
```

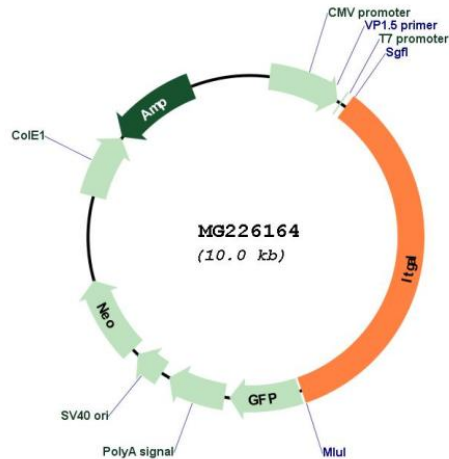
MSFRIAGPRLLLGLQLFAKAWSYNLDTRPTQSFLAQAGRHFQYQLQIEDGVVVGAPGEGDNTGGLYHC
RTSSEFCQPVSLHGSNHTSKYLGMTLATDAAKGSLACDPGLSRTCDQNTYLSGLCYLFPQSLEGPMLQN
RPAYQECMKGKVDLVFLFDGSQSLDRKDFEKILEFMKDVMRKLNTSYQFAAVQFSTDCRTEFTFLDYVK
QNKNPVLLGSVQPMFLLTNTFRAINYVVAHVFKKEESGARPDAKVLVIITDGEASDKGNISAAHDITRY
IIGIGKHFVSVQKQKTLHIFASEPVVEFVKILDTFEKLKDLFTDLQRRYIAIEGTRQDLTSFNMELSSS
GISADLSKGHAVVGVGAKDWAGGFLDLREDLQGATFVGQEPLTSDVRGGYLGYTVAWMTSRSSRPLAA
GAPRYQHVGQVLLFQAPEAGRWNTQKIEGTQIGSYFGGELCSVDLDQDGEALLLIGAPLFFGEQRGG
RVFTYQRRQSLFEMVSELQGDGPYPLGRFGAAITALT DINGDRLTDVAVGAPLEEQGA VYIFNGKPGGLS
PQPSQRIQGAQVFPGIRWFGRSIHGVKDLGGDRLADVVGAEGRVVVLSRPVVDVVTLSFSPEEIPVH
EVECSYSAREEQKHGVKLKACFRKPLTPQFQGRLLANLSYTLQLDGHMRMRGLFPDGSHELSGNTSIT
PDKSCLDFHFHFPICIQDLISPINVS LNFSLLEEEGTPRDQKVGRAMQPILRPSIHTVTKEIPFEKNCGE
DKKCEANLTLSSPARSGPLRLMSSASLAVEWTLSNSGEDAYWVRLDLDFPRGLSFRKVEMLQPHSRMPVS
CEELTEGSSLLTKLTKCNVSSPIFKAGQEVSLQVMFNTLLNSSWEDFVELNGTVHCENENSSLQEDNSAA
THIPVLYPVNILTKEQENSTLYISFTPKGPKTQQVQHVYQVRIQPSAYDHNMP TLEALVGPRPHSEDLI
TYTWSVQTDPLV TCHSEDLKRPSSAEQPCLPGVQFRCPVFRREILIQVTGTVELSKEIKASSTLSLCS
SLSVSVFNSSKHFHLYGSKASEAQLVKVDL IHEKEMLVVYVLSGIGGLVLLFLIFLALYKGVFFKRNLKE
KMEADGGVPNGSPPEDTDPLAVPGEETKDMGCLEPLRESDKD
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_008400

**ORF Size:** 3480 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\_008400.2, NP\_032426.2  
RefSeq Size: 3892 bp  
RefSeq ORF: 3483 bp  
Locus ID: 16408  
Cytogenetics: 7 69.44 cM