

## Product datasheet for **RG224758**

### CD11d (ITGAD) (NM\_005353) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD11d (ITGAD) (NM_005353) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ITGAD
Synonyms:	ADB2; CD11D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224758 representing NM_005353 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCTTCGGCACTGTGCTTCTTCTGAGTGTCTGGCTTCTTATCATGGATTCAACCTGGATGTGGAGG  
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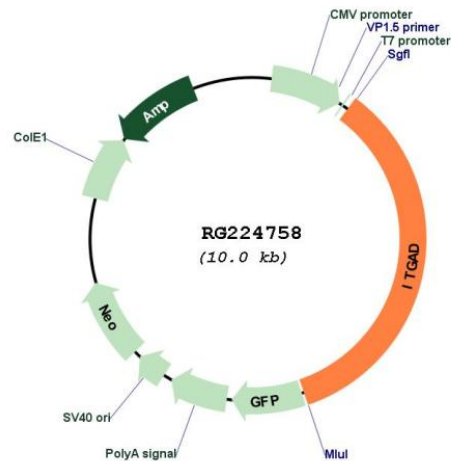
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GTGTCCGTGTGTCCCTTGCCCTAGGGGGAGGGTGCAGTGGCAGTGTGACGCTGTTCTCCGTGGTGAGCAGG  
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CTACAATGCCATCCCATCATCATGGGCAGCTCTGTGGGGCTCTGCTACTGCTGGCGCTCATCACAGCC  
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CCACATTCAGTGGGGACGATTTAGCTGTGTGGCCCCAAATGTGCCTTTGTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA



## Plasmid Map:



ACCN: NM\_005353

ORF Size: 3483 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\\_005353.2](#), [NP\\_005344.2](#)

RefSeq Size: 3912 bp

RefSeq ORF: 3486 bp

Locus ID: 3681

UniProt ID: [Q13349](#)

Cytogenetics: 16p11.2

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Regulation of actin cytoskeleton

**Gene Summary:** This gene belongs to the beta-2 integrin family of membrane glycoproteins, which are composed of non-covalently linked alpha and beta subunits to form a heterodimer. It encodes the alpha subunit of the cell surface heterodimers and is involved in the activation and adhesion functions of leukocytes. The gene is located about 11kb downstream of the integrin subunit alpha X gene, another member of the integrin family. It is expressed in the tissue and circulating myeloid leukocytes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]