

## Product datasheet for MR231573

### Itga6 (NM\_001277970) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Itga6 (NM_001277970) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Itga6
Synonyms:	5033401O05Rik; AI115430; Cd49f; VLA-6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR231573 representing NM_001277970 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGTCGCGGGCCAGTTGTGCCTGCTCTACCTGTCCGCGGGGCTTCTAGCCCGGCTGGGTACAGCCT  
TCAACCTGGACACCCGCGAGGACAACGTGATCCGGAAATCGGGGATCCCGGAGCCTCTTCGGCTTCTC  
GCTCGCCATGCACTGGCAGTTGCAGCCGAGGACAAGCGGCTGTTGCTTGTGGGGCACCTCGGGCAGAA  
GCACTCCCGCTGCAGAGGGCGAACAAGAAGGGGGCCTGTACAGCTGTGACATCACTCCCGGGACCTT  
GTACACGGATTGAATTTGATAATGACGCTGATCCTATGTCAGAAAAGCAAGGAAGACCAGTGGATGGGAGT  
CACTGTTCAAGCAAGGTCCAGGGGGCAAAGTGGTGACGTGTGCACATCGATAGAGAAACGGCAGCAC  
GTCAACACGAAGCAGGAGTCGCGGGATATCTTTGGAAGATGTTATGTCCTAAGTCAGAATCTCAGAATTG  
AAGATGATATGGACGGAGGAGACTGGAGTTTCTGCGATGGCCGGTTGAGAGGCCATGAAAAGTTGGCTC  
CTGTCAGCAAGGAGTAGCGGCTACTTTCCTAAGGACTTTCATTACATTGTTTTGGAGCCCCAGGGACT  
TACAACGGAAAGGATCGTCCGTGTAGAACAAAAGAATAACACTTTTTTTGACATGAACATCTTTGAAG  
ATGGGCCCTATGAAGTTGGTGGAGAGACTGATCATGATGAAAGTCTCGTGCCCTCTCTGCTAACAGTTA  
CCTAGGCTTTTCACTGGACTCAGGGAAGGGTATTGTTTCTAAAGATGACATCACTTTTGTGCTGGTGCT  
CCAAGAGCCAATCACAGTGGGGCTGTAGTTTTGCTAAAAAGAGACATGAAGTCCGCGCATCTGCTCCCTG  
AGTATATATTTGACGGAGAAGGCCTGGCTTCTCGTTTGGCTATGATGTGGCAGTGGTGGACCTCAATGC  
AGATGGGTGGCAAGACATTGTTATCGGAGCTCCACAGTATTTGATAGGGATGGTGAAGTCGGGGGTGCA  
GTTTACGCTACATTAACCAGCAAGGCAAATGGAGTAATGTGAAGCCGATTCTGCTAAATGGGACCAAAG  
ACTCGATGTTTGAATCTCTGTGAAAAATATAGGTGATATTAACCAAGATGGCTATCCAGATATTGCTGT  
TGGAGCTCCCTATGATGATCTGGGAAGGTTTTATCTATCATGGATCCCGACTGGCATAAATTACCAAG  
CCAACACAGGTTCTCGAGGGGACATCGCCTTACTTCGGCTATTCAATCGCTGGGAATATGGACCTGGATC  
GGAATTCCTACCCGACCTTGTGTGGGCTCCCTCTCAGACTCGTCACTATTTTCAGATCCCGGCCAGT  
GATTAACATTCTAAAAACCATCACAGTACTCCTAACAGAATTGACCTCCGCCAGAGTCCATGTGTGGC  
TCACCTAGCGGGATATGCCTCAAGGTTAAAGCCTGTTTTGAATATACTGCGAAACCTTCCGGTTATAACC



[View online »](#)

CTCCAATATCAATTTTGGGTATTCTCGAAGCTGAAAAAGAAAGAAGAAAGTCAGGGTTGTCATCGAGAGT  
 TCAGTTTCGAAACCAAGGTTCCGAGCCAAAGTATACTCAGGAGCTGACCCCTGAATCGGCAGAAGCAGCGG  
 GCGTGATGGAGGAGACCCTCTGGCTGCAGGAGAACATCAGAGACAAGCTGCGTCCCATCCCCATCACGG  
 CTTCTGTGGAGATCCAGGAGCCAGCTCTCGCCGGCGGGTGAACCTCACTCCCCGAAGTCTTCCCATCCT  
 GAATTCAAATGAAGCCAAAACGGTCCAGACAGATGTCCACTTCTAAAGGAAGGATGTGGAGACGACAAT  
 GTCTGTAACAGCAACCTTAAGCTAGAGTATAAATTTGGTACCCGAGAAGGAAATCAAGACAAATTTCTT  
 ACCTTCAAATCAAAAAGGCATCCAGAAATAGTCTAAAAGATCAGAAGATATAGCTCTGGAATAAC  
 GGTGACCAACAGCCCTTCGGATCCAAGGAATCCCGGAAAGATGGCGACGATGCCATGAAGCCAAACTC  
 ATCGCCACGTTTCCAGACTCTGACATATTCCGCTTACAGAGAAGTGAAGGCTTTCCCTGAGAAGCAGC  
 TGAGCTGTGTGGCCAACCAGAATGGCTCCCAAGCCGACTGTGAGCTCGGAAATCCTTTCAAGAGAAATTC  
 CAGTGTTACTTTCTATCTGATTTAAGTACAACCGAGGTCACCTTTGACACCACAGATCTGGATATTAAT  
 CTGAAGTTGGAACAACAAGCAATCAGGATAATTTGGCTCAATTACAGCGAAGGCAAAGTGGTTATTG  
 AATTGCTTTTATCGGTCTCCGGAGTCGCTAAGCCTTCGCAGGTGATTTTGGAGGTACAGTTGTTGGTGA  
 GCAAGCTATGAAATCTGAAGATGAAGTAGGAAGTTAATAGAGTATGAATTTAGGGTGATTAAGTAGGC  
 AAGCCTCTTAAAAACCTCGGCACAGCAACCTTGAATATACAGTGGCCCAAGGAGATTAGCAATGGCAAT  
 GGTGTCTTATTTGATGAAAGTTGAATCCAAGGTTTGGAGCAGATTGTTTGTGACCCACACAATGAAAT  
 AAACCTACCTGAAGCTGAAGGAGTCTCACAACCTAAGAAAGAAACGGGAACCTCCTGAAAAACAGATAGAT  
 GACAGCAGGAAATTTCTTTATTTCTGAAAGAAAATACCAGACTCTCAACTGCAGCGTCAACGTGAGGT  
 GTGTGAACATCAGGTGCCACTGCGAGGGCTGGACAGCAAGGCCTCTCTCGTTCTTCCGTTCCAGGTTGTG  
 GAACAGCACATTTCTAGAGGAATATCCAACTGAACTACTTGGACATTTCTCTGAGGGCTTCCATAGAT  
 GTCACCGCTGCTGCTCAGAATATCAAGTCCCTCACGCGGCACTCAGGTCGAGTGACGGTGTTCCTC  
 CAAAGACTGTAGCTCAGTATTCAGGAGTAGCTTGGTGGATCATCTCTGCTGTTCTTCCGGGGATTCT  
 GATGCTGGCTCTATTAGTGTTTTTACTGTGGAAGTGTGGATTCTTAAAGCGCTCTAGGACGATGACAGC  
 ATTCCCCGATACCATGCGGTGCGGATCCCGAAAGAAAGCGGAGAGATCAAAAGATGAGAAACACATGGATA  
 ACCTCGAAAAAAAACAGTGGATACCAAGTGAATGAAAACGAAAGTTACTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR231573 representing NM\_001277970

Red=Cloning site Green=Tags(s)

MAVAGQLCLLYLSAGLLARLGTAFNLDTREDNVIRKSGDPGSLFGFSLAMHWQLQPEDKRLLLVGAPRAE  
 ALPLQRANRTGGLYSCDITSRGPCTRIEFDNDADPMSESKEDQWMGVTVQSQGGKVVVCAHRYEKRQH  
 VNTKQESRDI FGRCYVLSQNLRIEDDMGGDWSFCDGRLRGHEKFGSCQQGVAATFKDFHYIVFGAPGT  
 YNWKGI RVEQKNNTFFDMNIFEDGPYEVGGETHDESLVPVPANSYLGFSLDGKGI VSKDDITFVSGA  
 PRANHSGAVVLLKRDMSAHLLEPEYIFDGEGLASSFGYDVAVVDL NADGWQDIVIGAPQYFDRDGEVGA  
 VVVYINQQGKWSNVKPIRLNGTKDSMFGISVKNIGDINQDGYPDIAVGAPYDDLKGVFIYHGSPTGIITK  
 PTQVLEGTSPYFGYSIAGNMDLDRNSYPLAVGSLSDSVTIFRSRPVINILKTIITVTPNRIDL RQKSMCG  
 SPSGICLKVKACFEYTA KPSGYNPPISILGILEAEKERRKSGLSSRVQFRNQGSEPKYTQELTLNRQKQR  
 ACMEETLWLQENIRDKLRPI PITASVEIQEPSSRRRVNSLPEVLPILNSNEAKTVQTDVHFLKEGCGDDN  
 VCNLNKLEYKFGTREGNQDKFSYLP IQKGIPELVKDKQDIALEITVTNPSDPRNPRKDGDDAHEAKL  
 IATFPDTLTYSAYRELR AFPEKQLSCVANQNGSQADCELG NPFKRNSSVTFYLILSTTEVTFDITDLDIN  
 LKLETTSNQDNLAPITAKAKVVI ELLL SVSGVAKPSQVYFGGT VVGEQAMKSEDEVGSLIEYEFVNLG  
 KPLKNLGTATLNIQWPKEISNGKWL L YLMKVESKGLEQIVCEPHNEINYLK LKESHNSRKKRELPEKQID  
 DSRKFSLFPERKYQTLNCSVNVRCVNI RCPLRGLDSKASLV LRSRLWNSTFLEEYSKLN YLDILLRASID  
 VTAAAQNIKLPHAGTQVRVTVF PSKTVAQYSGVAWWIILLAVLAGILMLALLVFL LWKCGFFKRSRYDSS  
 IPRYHAVIRKEEREIKDEKHMDNLEKKQWITKWNENESYS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

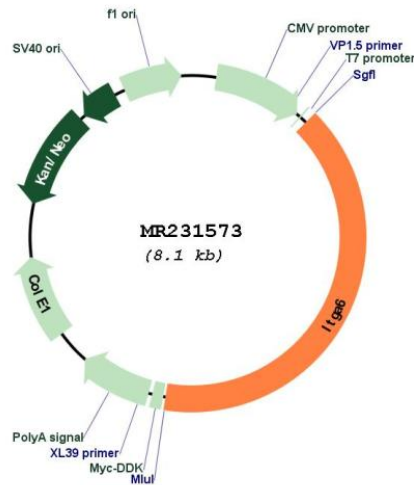
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001277970

ORF Size: 3273 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001277970.1</a></u> , <u><a href="#">NP_001264899.1</a></u>
<b>RefSeq Size:</b>	5888 bp
<b>RefSeq ORF:</b>	3276 bp
<b>Locus ID:</b>	16403
<b>UniProt ID:</b>	<u><a href="#">Q61739</a></u>
<b>Cytogenetics:</b>	2 42.79 cM
<b>MW:</b>	122.6 kDa
<b>Gene Summary:</b>	This gene encodes a protein that is a member of the integrin superfamily. Integrins are transmembrane receptors involved cell adhesion and signaling, and they are subdivided based on the heterodimer formation of alpha and beta chains. This protein has been shown to heterodimerize with beta 4 to bind laminin and to form the main component of hemidesmosomes, which mediate attachment of epithelia to basement membranes. In mouse, deficiency of this gene is associated with absence of hemidesmosomes, severe skin blistering, and early post-natal death. In humans mutations of this gene are associated with epidermolysis bullosa. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, May 2013]