

Product datasheet for SC118748

Integrin alpha 5 (ITGA5) (NM_002205) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Integrin alpha 5 (ITGA5) (NM_002205) Human Untagged Clone
Tag:	Tag Free
Symbol:	Integrin alpha 5
Synonyms:	CD49e; FNRA; VLA-5; VLA5A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_002205 edited
 GAATTCGGCACGAGGGCGGCTCCGGGTCGGTGGCCCCAGGACAGGAAGAGCGGGCGCTA
 TGGGGAGCCGGACGCCAGAGTCCCCTCTCCACGCCGTGCAGCTGCGCTGGGGCCCCGGG
 GCCGACCCCCGCTGCTGCCGCTGCTGTTGCTGCTGCTGCCGCCGCCACCCAGGGTCGGGG
 GCTTCAACTTAGACCGGAGGCCCCAGCAGTACTCTCGGGGCCCCCGGGCTCCTTCTTCG
 GATTCTCAGTGGAGTTTTACCGCCGGGAACAGACGGGGTCAAGTGTGGTGGGAGCAC
 CCAAGGTAATACCAGCCAGCCAGGAGTGTGCAGGGTGGTGTCTACCTCTGTCTCCTT
 GGGGTGCCAGCCCCACACAGTGCACCCCCATTGAATTTGACAGCAAAGGCTCTCGGCTCC
 TGGAGTCTCACTGTCCAGCTCAGAGGGAGAGGAGCCTGTGGAGTACAAGTCTTGCAGT
 GGTTCGGGGCAACAGTTCGAGCCCATGGCTCCTCCATCTTGGCATGCGCTCCACTGTACA
 GCTGGCGCACAGAGAAGGAGCCACTGAGCGACCCCGTGGGCACCTGCTACCTCTCCACAG
 ATAACTTCACCCGAATTCGAGATGACCCCTGCCGCTCAGATTCAGCTGGGCAGCAG
 GACAGGGTTACTGCCAAGGAGGCTTCAGTGCCGAGTTCACCAAGACTGGCCGTGTGGTTT
 TAGGTGGACCAGGAAGCTATTTCTGGCAAGGCCAGATCCTGTCTGCCACTCAGGAGCAGA
 TTGAGAATCTTATTACCCCGAGTACCTGATCAACCTGGTTCAGGGGCAGCTGCAGACTC
 GCCAGGCCAGTTCATCTATGATGACAGCTACCTAGGATACTCTGTGGCTGTTGGTGAAT
 TCAGTGGTGATGACACAGAAGACTTTGTGCTGGTGTGCCAAAGGGAACCTCACTTACG
 GCTATGTCACCATCCTTAATGGCTCAGACATTCGATCCCTCTACAACCTCTCAGGGGAAC
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 AGGTGGGCAGGGTCTACGTCTACCTGCAGCACCCAGCCGCATAGAGCCACGCCACCC
 TTACCCTCACTGGCCATGATGAGTTTGGCCGATTTGGCAGCTCCTTGACCCCTGGGGG
 ACCTGGACCAGGATGGCTACAATGATGTGGCCATCGGGGCTCCCTTTGGTGGGGAGACCC
 AGCAGGGAGTAGTGTGTTGATTTCTGGGGGCCAGGAGGGCTGGGCTCTAAGCCTTCCC
 AGGTTCTGCAGCCCTGTGGGCAGCCAGCCACACCCAGACTTCTTTGGCTCTGCCCTTC
 GAGGAGGCCGAGACCTGGATGGCAATGGATATCCTGATCTGATTGTGGGGTCTTTGGTG
 TGGACAAGGCTGTGGTATACAGGGGCCGCCCATCGTGTCCGCTAGTGCCTCCCTCACCA



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TCTTCCCCGCATGTTCAACCCAGAGGAGCGGAGCTGCAGCTTAGAGGGGAACCCCTGTGG
 CCTGCATCAACCTTAGCTTCTGCCTCAATGCTTCTGAAAAACACGTTGCTGACTCCATTG
 GTTTCACAGTGGAACTTCAGCTGGACTGGCAGAAGCAGAAGGGAGGGGTACGGCGGGCAC
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 GAGAGGATTGCAGAGAGATGAAGATCTACCTCAGGAACGAGTCAGAATTCGAGACAAAC
 TCTCGCCGATTCACATCGCTCTCAACTTCTCCTTGGACCCCAAGCCCCAGTGGACAGCC
 ACGGCCTCAGGCCAGCCCTACATTATCAGAGCAAGAGCCGGATAGAGGACAAGGCTCAGA
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 GGGAGCAGAACCATGTGTACCTGGGTGACAAGAATGCCCTGAACCTCACTTTCCATGCC
 AGAATGTGGGTGAGGGTGGCGCTATGAGGCTGAGCTTCGGGTACCGCCCTCCAGAGG
 CTGAGTACTCAGGACTCGTCAGACACCCAGGAACTTCTCCAGCCTGAGCTGTGACTACT
 TTGCCGTGAACCAGAGCCGCTGCTGGTGTGTGACCTGGGCAACCCCATGAAGGCAGGAG
 CCAGTCTGTGGGGTGGCCTTCGGTTTACAGTCCCTCATCTCCGGGACACTAAGAAAACCA
 TCCAGTTTGACTCCAGATCCTCAGCAAGAATCTCAACAACCTCGAAAGCGACGTGGTTT
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 GAACCAGTCCCCCACCCTCATTCTACTGAAAAGGAGGGGTCTGGGTACTTCTTGAAGGT
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 AAGCCTTTGCATTTTGGAGATTTCTGAAACAACCTTGGAAAGATAACTAGGAAATCCAT
 TCACAGTTCTTTGGGCCAGACATGCCACAAGGACTTCTGTCCAGCTCCAACCTGCAAAG
 ATCTGTCTCAGCCTTGGCAGAGATCCAAAAGAAGCCCCAGCTAAGAACCTGGAACCTTG
 GGGAGTTAAGACCTGGCAGCTCTGGACAGCCCCACCCTGGTGGGCCAACAAAGAACACTA
 ACTATGCATGGTCCCCAGGACCAGCTCAGGACAGATGCCACACAAGGATAGATGCTGGC
 CCAGGGCCAGAGCCAGCTCCAAGGGAATCAGAACTCAAATGGGGCCAGATCCAGCCTG
 GGGTCTGGAGTTGATCTGGAACCCAGACTCAGAACTTGGCACCTAATCCAGXXXXXXXXXX
 XXXXXXXXXXXXXATCTGGACCTCAGCCTGGCCAGACACAGGCCCTCCCTGTTCCCCAGAG
 AAAGGGGAGCCCACTGTCTGGCCTGCAGAATTTGGTTCTGCCTGCCAGCTGCACTGA
 TGCTGCCCTCATCTCTGCCCCAACCTTCCCTCACCTTGGCACCCAGACACCCAGGACT
 TATTTAACTCTGTTGCAAGTGAATAAATCTGACCCAGTCCCCCACTGACCAGAACTA
 GAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002205 unedited</p> <p>TATATCCCCCGCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAA GCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTTGCAGCGGCCG CGAATTCGGCACGAGGGCGGCTCCGGTTCGGTGGCCCCAGGACAGGGAAGAGCGGGCGCT ATGGGGAGCCGGACGCCAGAGTCCCCTCTCCACGCCGTGCAGCTGCGCTGGGGCCCCCGG GGCGGACCCCCGCTGCTGCCGCTGCTGTGCTGCTGCTGCCGCCGCCACCCAGGGTCCGG GGCTTCAACTTAGACCGGAGGCCCCAGCAGTACTCTCGGGGCCCGGGCTCCTTCTTC GGATTCTCAGTGGAGTTTTACCGCCGGGAACAGACGGGGTCAGTGTGCTGGTGGGAGCA CCCAAGGCTAATACCAGCCAGCCAGGAGTGTGTCAGGGTGGTGTCTACCTCTGTCTCT TGGGGTGCAGCCCCACACAGTGCACCCCCATTGAATTTGACAGCAAAGGCTCTCGGCTC CTGGAGTCTCACTGTCCAGCTCAGAGGGAGAGGAGCCTGTGGAGTACAAGTCTTGCAG TGGTTCGGGGCAACAGTTCGAGCCCATGGCTCCTCCATCTTGGCATGCGCTCCACTGTAC AGCTGGCGCACAGAGAAGGAGCCACTGAGCGACCCCGTGGGCACCTGCTACCTCTCCACA GATAACTTCACCCGAATTCTGGAGTATGCACCCTGCCGCTCAGATTTAGCTGGGCAGCA GGACAGGGTTACTGCCAAGGAGGCTTCAGTGCCGAGTTACCAAGACTGGCCGTGTGGTT TTAGTGGACCAGAAGCTATTTCTGGCAGGCCAGATCCTGTCTGCCACTCAGACAGATGC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002205 unedited</p> <p>GCCCTCTATGTACGCGGCCGATTTTANGATCGGTTTTTTTTTTTTTTTTTCTAGTTCT GGTCAGTGGGGGCACTGGGTGAGATTTATTGCACTTGCAACAGAGTTAAATAAGTCCTG GGTGTCTGGTGC AAGGTGAGGGAAGGGTTGGGCAGAGAGATGAGGGGCAGCATCAGTGC AGCTGGCAGGCAGAACCCAAATCTGCAGGCCAGGACAGTGGGCTCCCCCTTCTCTGGG GAACAGGGAGGGCCTGTGTCTGGCCAGGCTGAGGTTCCAGATCTGTTGCCATCATGGCCC CTTCAGGGTCTGGGAAATCTCTGGCTTCTCCTAAATCAGGGTGAACGGGCTCCAGGA TCAGGTCTGGAGCAGGCCAAATATAGTCTGGATCTGCCTGGATTAGGTGCCAATGTCT GAGTCTGGGTTCCAGATCAACTCCAGACCCAGGCTGGATCTGGCCCCATTTGAGTCTG ATCCCCCTGGAGCTGGGCTCTGGGCCCTGGGCCAGCATCTATCCTTGTGTGGCATCTG CCTGAGCTGGTCCCTGGGGCACCATGCATAGTTAGTGTCTTTGTTGGCCACCAGGGTGG GGCTGTCCAGAGCTGCCAGGTCTTAACCTCCCAAGTTCAGGTTCTTAGCTGGGGGGCTT CTTTTTGAATCTCTGGCAAGGCTGAAGACAGATCTTTGCAAGTTGGAGCTGGACAGGAA GTCCCTGTGGCATGTTTTGGCCAAAGAACTGTGAATGGGTTTCTAGTATCTTTCAAGT TGTTTCAGGAACTCTCCAAATGCAAAGGCTTAGGGAGGCTGGGGCTCTGCCCTGGTC TGAATCCCCCTTCTGAAGAGGATGTGTAACAGGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_002205
Insert Size:	4700 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_002205.2 , NP_002196.2
RefSeq Size:	4267 bp
RefSeq ORF:	3150 bp
Locus ID:	3678
UniProt ID:	P08648
Cytogenetics:	12q13.13
Domains:	FG-GAP
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, ECM-receptor interaction, Focal adhesion, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (HCM), Regulation of actin cytoskeleton
Gene Summary:	<p>The product of this gene belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins composed of an alpha subunit and a beta subunit that function in cell surface adhesion and signaling. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha 5 subunit. This subunit associates with the beta 1 subunit to form a fibronectin receptor. This integrin may promote tumor invasion, and higher expression of this gene may be correlated with shorter survival time in lung cancer patients. Note that the integrin alpha 5 and integrin alpha V subunits are encoded by distinct genes. [provided by RefSeq, Oct 2015]</p>