

Product datasheet for **SC123605**

IGHM (BC017356) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IGHM (BC017356) Human Untagged Clone
Tag:	Tag Free
Symbol:	IGHM
Synonyms:	AGM1; MU; VH
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for BC017356 edited
GTCATGGACCTCCTGCACAAGAACATGAAACACCTGTGGTTCTTCCTCCTCCTGGTGGCA
GCTCCCAGATGGGTCTGTCCCAGGTGCAGCTACAGCAGTGGGGCGCAGGACTGTTGAAG
CCTTCCGAGACCTGTCCCTCACCTGCGGTGTTTATGGTGGTCTTCAGTGGTACTAT
TGGAGCTGGATTCCGACGCCCCAGGGAAGGGCTGGAGTGGATTGGGAAATCAATCAT
AGTGGAAGCACCACCTACAACCCGTCCCTCAAGAGTCGAGTCACCATATCAGTAGACACG
TCCAAGAAGCAGCTCTCCCTGAAGTTGAGCTCTGTGAACGCCCGGACACGGCTGTGTAT
TACTGTGCGAGAGTTATTACTAGGGCGAGTCTGGCACAGACGGGAGGTACGGTATGGAC
GTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCAGGGAGTGCATCCGCCCAACCCCTT
TTCCCCCTCGTCTCCTGTGAGAATTCCCCGTGGGATACGAGCAGCGTGGCCGTTGGCTGC
CTCGCACAGGACTTCTTCCCGACTCCATCACTTTCTCCTGAAAATAACAAGAACAACCTCT
GACATCAGCAGCACCCGGGGCTTCCCATCAGTCTGAGAGGGGGCAAGTACGCAGCCACC
TCACAGGTGCTGCTGCCTTCCAAGGACGTATGCAGGGCACAGACGAACACGTGGTGTGC
AAAGTCCAGCACCCCAACGGCAACAAAGAAAAGAACGTGCCTTCCAGTGATTGCCGAG
CTGCCTCCCAAAGTGAGCGTCTTCGTCCACCCCGCAGCGGCTTCTTCGCAACCCCGC
AAGTCAAAGCTCATCTGCCAGGCCACGGGTTTCAGTCCCGCGCAGATTACAGGTGTCTGG
CTGCGCGAGGGGAAGCAGGTGGGGTCTGGCGTCAACCAGGACCAGGTGCAGGCTGAGGCC
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AATGCGTCTCCATGTGTGTCCCGATCAAGACACAGCCATCCGGGTCTTCGCCATCCCC
CCATCCTTTGCCAGCATTTCTCACCAAGTCCACCAAGTTGACCTGCCTGGTACAGAC
CTGACCACCTATGACAGCGTGACCATCTCCTGGACCCGCCAGAATGGCGAAGCTGTGAAA
ACCCACACCAACATCTCCGAGAGCCACCCCAATGCCACTTTCAGCGCCGTGGGTGAGGCC
AGCATCTGCGAGGATGACTGGAATTCGGGGAGAGGTTACGTGCACCGTGACCCACACA
GACCTGCCCTCGCCACTGAAGCAGACCATCTCCCGGCCAAGGGGTGGCCCTGCACAGG
CCCGATGTCTACTTGCTGCCACCAGCCGGGAGCAGTGAACCTGCGGGAGTCGGCCACC
ATCACGTGCCTGGTGACGGGCTTCTCCTCCGCGGACGTCTTCGTGCAGTGGATGCAGAGG
GGGCAGCCCTTGTCCCCGAGAAGTATGTGACCAGCGCCCAATGCCTGAGCCCCAGGCC
CCAGGCCGGTACTTCGCCACAGCATCCTGACCGTGTCCGAAGAGGAATGGAACACGGGG
GAGACCTACACCTGCGTGGTGGCCATGAGGCCCTGCCAACAGGGTACCGAGAGGACC
GTGGACAAGTCCACCGAGGGGGAGGTGAGCGCCGACGAGGAGGGCTTTGAGAACCTGTGG
GCCACCGCTCCACCTTCATCGTCTTCTCCTCCTGAGCCTTCTTACAGTACCACCGTC
ACCTTGTTC AAGGTGAAATGATCCCAACAGAAGAACATCGGAGACCAGAGAGAGGAACTC
AAAGGGGCGCAGCCTCCGGGTCTGGGGTCTGGCTGCGTGGCCTGTTGGCACGTGTTTC
TCTTCCCCCGCCGGCCTCCAGTTGTGTGCTCTCACACAGGCTTCTTCTCGACCGGCAGG
GGCTGGCTGGCTTGCAGGCCACGAGGTGGGCTCTACCCACACTGCTTTGCTGTGTATAC
GCTTGTGCCCTGAAATAAATATGCACATTTTATCCATGAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC017356 unedited GTCCAAATTTTGTAAACGACTCAACTATAGGGCGGCCGGAATTCGCACGAGGGTCATG GACCTCCTGCACAAGAACATGAAACACCTGTGGTCTTCTCCTCCTGGTGGCAGCTCCC AGATGGGTCTGTCCCAGGTGCAGCTACAGCAGTGGGGCGCAGGACTGTTGAAGCCTTCG GAGACCTGTCCCTCACCTGCGGTGTTTATGGTGGTCCCTCAGTGGTACTATTGGAGC TGGATTCGCCAGCCCCAGGGAAGGGCTGGAGTGGATTGGGAAATCAATCATAGTGA AGCACCACACTACAACCCGTCCTCAAGAGTCGAGTCACCATATCAGTAGACACGTCCAAG AAGCAGCTCTCCCTGAAGTTGAGCTCTGTGAACGCCGCGACACGGCTGTGTATTACTGT GCGAGAGTTATTACTAGGGCGAGTCTGGCACAGACGGGAGGTACGGTATGGACGTCTGG GGCCAAGGGACCACGGTACCGTCTCCTCAGGGAGTGCATCCGCCCAACCCTTTTCCCC CTCGTCTCCTGTGAGAATTCCCCGTCGGATACGAGCAGCGTGGCCGTTGGCTGCCTCGCA CAGGACTTCTTCCCGACTCCATCACTTCTCCTGAAAATACAAGAACAACCTCTGACATC AGCAGCACCCGGGGCTTCCCATCAGTCTGAGAGGGGGCAAGTACGCAGCCACCTCACAG GTGCTGTGCCTTCCCAGGACGTATGCAGGNACAGACGAACACGTGGTGTGCAAAGTC CAGCACCCNAACGCAACAAGAAAAGACGTGCCCTTCCAGTGATTGCCGAGCTGCCTCC CAAAGTGAGCGGTCTCGTCCCACCCGCGACGGCTTNTCTCGGAACCCCCGCAGTCCAAG CTTATCTGGCAGGCCACGGTTTTAAGTCCCG
Restriction Sites:	Please inquire
ACCN:	BC017356
Insert Size:	2179 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:	BC017356.2
RefSeq Size:	2170 bp
Locus ID:	3507
Cytogenetics:	14q32.33

Gene Summary:

Immunoglobulins (Ig) are the antigen recognition molecules of B cells. An Ig molecule is made up of 2 identical heavy chains and 2 identical light chains (see MIM 147200) joined by disulfide bonds so that each heavy chain is linked to a light chain and the 2 heavy chains are linked together. Each Ig heavy chain has an N-terminal variable (V) region containing the antigen-binding site and a C-terminal constant (C) region, encoded by an individual C region gene, that determines the isotype of the antibody and provides effector or signaling functions. The heavy chain V region is encoded by 1 each of 3 types of genes: V genes (see MIM 147070), joining (J) genes (see MIM 147010), and diversity (D) genes (see MIM 146910). The C region genes are clustered downstream of the V region genes within the heavy chain locus on chromosome 14. The IGHM gene encodes the C region of the mu heavy chain, which defines the IgM isotype. Naive B cells express the transmembrane forms of IgM and IgD (see IGHD; MIM 1471770) on their surface. During an antibody response, activated B cells can switch to the expression of individual downstream heavy chain C region genes by a process of somatic recombination known as isotype switching. In addition, secreted Ig forms that act as antibodies can be produced by alternative RNA processing of the heavy chain C region sequences. Although the membrane forms of all Ig isotypes are monomeric, secreted IgM forms pentamers, and occasionally hexamers, in plasma (summary by Janeway et al., 2005). [supplied by OMIM, Aug 2010]