

Product datasheet for **MG207728**

Igh (BC028249) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Igh (BC028249) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Igh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207728 representing BC028249
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGATGGAGCTGTATCATGCTCTTCTTGGCAGCAACAGCTACAGGTGCCACTCCAGGTCCAAGTGC
 AGCAGCCTGGGGCTGAGCTTGTGAAGCCTGGGGCTTCAAGTAAAGCTGTCCTGCAAGGCTTCTGGCTACAC
 CTTACCAGTTACTGGATGCACTGGGTGAAGCAGAGGCCTGGACGAGGCCTTGAGTGGATTGGAAGGATT
 GATCCTAATAGTGGTGGTACTAAGTACAATGAGAAGTTCAAGAGCAAGGCCACACTGACTGTAGACAAAAC
 CCTCCAGCACAGCCTACATGCAGCTCAGCAGCCTGACATCTGAGGACTCTGCGGTCTATTACTGTACAAG
 AGAGGGGGATTACGACGCTATGGACTACTGGGGTCAAGGAACCTCAGTACCCTCTCCTCAGAGCCTGCA
 AGAGAGCCACCATCTACCCACTGACATCCCACAAGCTCTGTCAAGTACCCAGTGATAATCGGCTGCC
 TGATTCATGATTACTTCCCTTCCGGCAGATGAATGTGACCTGGGAAAGAGTGGGAAGGATATAACCAC
 CGTAAACTTCCCACCTGCCCTGGCTCTGGGGACGGTACCCATGAGCAGCCAGTTGACCTGCCAGCT
 GTCGAGTGCCAGAAAGGAGAATCCGTGAAATGTTCCGTGCAACATGACTCTAACCCCGTCCAAGAATTGA
 ACGTGAATTGCCCTGGTATCTGTTCTCCTCTACTACTCCTCCTCCACCTTCTGCCAGCCAGCCTGTC
 ACTGCAGCGGCCAGCTCTTGAGGACCTGCTCTGGGTTCCAGATGCCAGCATCACATGACTCTGAATGGC
 CTGAGAGATCCTGAGGGAGCTGTCTTCACTGGGAGCCCTCCACTGGGAAGGATGCAGTGCAGAAGAAAAG
 CTGTGCAGAAATCCTGCGGCTGTACAGTGTGTCCAGCGTCTGCCTGGCTGTGCTGAGCGCTGGAACAG
 TGGCGCATCATTCAAGTGCACAGTTACCCATCCTGAGTCTGACACCTTAACTGGCACAATTGCCAAAAGTC
 ACAGTGAACACCTTCCCACCCAGTCCACCTGCTACCCGCCCGTCCGAGGAGCTGGCCCTGAATGAGC
 TCGTGTCCCTGACATGCCTGGTGGAGCTTTCAACCCTAAAGAAGTGTGGTGGCATGGATGCATGGAAA
 TGAGGAGCTGTCCCAGAAAGTACCTAGTGTGTTGAGCCCTAAAGGAGCCAGGCGAGGGAGCCACCACC
 TACCTGGTGAACAAGCGTGTGCGTGTATCAGCTGAAATCTGAAAACAGGGTGACCACTACTCCTGCATGG
 TGGGCCACGAGGCCTTGCCCATGAACTTACCCAGAAGACCATCGACCGTCTGTGCGGTAACCCACCAA
 TGTGAGCGTGTGTGATCATGTGAGGGGAGATGGCATCTGCTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207728 representing BC028249
 Red=Cloning site Green=Tags(s)

MGWSCIMFLAATATGVHSQVQLQPPGAEVLPKASVSLKASGYTFTSYWMHWKQRPGRGLEWIGRI
 DPNSGGTKYNEFKSKATLTVDKPSSTAYMQLSSLTSEDSAVYYCTREGDYDAMDYWGQTSVTVSSEPA
 REPTIYPLTFPQALSSDPVIGCLIHDFPSTGMNVTWKGSGKDITTVNFPPALASGGRYTMSSQLTLPA
 VECPEGESVKCSVQHDSNPVQELNVNCPGICSPPTTPPPSCQPSLSLQRPALDLLLLGSDASITCTLNG
 LRDPEGAVFTWEPSTGKDAVQKAVQNSCGCYSSVLPGAERWNSGASFKCTVTHPESDTLTGTIAKV
 TVNTFPPQVHLLPPPSEELALNELVSLTCLVRAFPKPEVLRWLVHNEELSPESYLVEPLKEPGEAT
 YLVTSLRVSAEIKWQGDQYSCMVGHEALPMNFTQKTIDRLSGKPTNVSVSVIMSEGDGICY

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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: [BC028249](#)

RefSeq Size: 1547 bp

RefSeq ORF: 1448 bp

Locus ID: 111507

Cytogenetics: 12 F1-F2 | 12

Gene Summary: Summary: Immunoglobulins recognize foreign antigens and initiate immune responses such as phagocytosis and the complement system. Each immunoglobulin molecule consists of two identical heavy chains and two identical light chains. This region represents the germline organization of the heavy chain locus. The locus includes V (variable), D (diversity), J (joining), and C (constant) segments. During B cell development, a recombination event at the DNA level joins a single D segment with a J segment; this partially rearranged D-J gene is then joined to a V segment. The rearranged V-D-J is then transcribed with the IGHM constant region; this transcript encodes a mu heavy chain. Later in development B cells generate V-D-J-Cmu-Cdelta pre-messenger RNA, which is alternatively spliced to encode either a mu or a delta heavy chain. Mature B cells in the lymph nodes undergo switch recombination, so that the V-D-J gene is brought in proximity to one of the IGHG, IGHA, or IGHE genes and each cell expresses either the gamma, alpha, or epsilon heavy chain. Recombination of many different V segments with several J segments provides a wide range of antigen recognition. Additional diversity is attained by junctional diversity, resulting from the random additional of nucleotides by terminal deoxynucleotidyltransferase, and by somatic hypermutation, which occurs during B cell maturation in the spleen and lymph nodes. The RefSeq represents the IGH locus from C57BL/6. Several V and D segments in C57BL/6 are known to be incapable of encoding a protein and are considered pseudogenes. [provided by RefSeq, Jul 2008]