

Datasheet for ABIN2958307

IgG, Library Primer Set, Mouse, BioGenomics™

Overview

Quantity:	2 x 25 primer
Oligo-Type:	Sequencing Primer
Application:	Polymerase Chain Reaction (PCR)

Product Details

Brand:	BioGenomics™
Characteristics:	<p>IgG, Library Primer Set, Mouse, BioGenomics™</p> <p>Many monoclonal antibodies of mouse origin are valuable diagnostic agents. Their production by classical hybridoma techniques is frequently limited by the instability of cell lines, low antibody yields and the limitations of immunizing mice with toxic antigens. A promising alternative to the hybridoma technology is the production of recombinant antibodies.</p> <p>Pioneering work of the last decade showed that it is possible to amplify rearranged immunoglobulin genes from B-lymphocytes, to insert them into different vectors, and to express them in bacteria, yeast, insect, mammalian or plant cells. Moreover, the randomized combination of cloned heavy and light chain immunoglobulin gene fragments allowed the construction of mouse antibody libraries. These libraries enable the isolation of specific antibodies against particular antigens by phage display techniques. One prerequisite for generating highly diversified mouse antibody libraries, however, is the development of PCR primers capable of amplifying all rearranged immunoglobulin genes. In immunoglobulin repertoire library cloning, the homology between a particular primer sequence and its target template, as well as the diversity of a primer pool are the two most important parameters which determine the cloning efficiency and the size of a resulting repertoire library. This screening strategy allows the amplification of rearranged mouse immunoglobulin genes of individual B cell clones as well as of larger B cell populations for the construction of mouse scFv-antibody libraries.</p>
Purification:	Purified by HPLC, high purity, salt-free.

Order at www.genomics-online.com

USA & Canada: +1 877 302 8632 | support@antibodies-online.com

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Product Details

Components:	Primer Set 1 for PCR Amplification I1904-10A1: Heavy Chain Variable Primer (Set 1) 11x20ul I1904-10A2: Heavy Chain Constant Primer (Set 1) 1x220ul I1904-10A3: Light Chain Variable (kappa) Primer (Set 1) 10x20ul I1904-10A4: Light Chain Constant (kappa) Primer (Set 1) 1x220ul I1904-10A5: Light Chain Variable (lambda) Primer (Set 1) 1x20ul I1904-10A6: Light Chain Constant (lambda) Primer (Set 1) 1x20ul Primer Set 2 for Cloning I1904-10B7: Heavy Chain Variable Primer (Set 2) 11x20ul I1904-10B8: Heavy Chain Constant Primer (Set 2) 1x220ul I1904-10B9: Light Chain Variable (kappa) Primer (Set 2) 10x20ul I1904-10B10: Light Chain Constant (kappa) Primer (Set 2) 1x20ul I1904-10B11: Light Chain Constant (lambda) Primer (Set 2) 1x220ul I1904-10B12: Light Chain Constant (lambda) Primer (Set 2) 1x20ul
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Application Details

Comment:	Generation of large repertoires of rearranged immunoglobulin variable domain coding regions for the construction of mouse IgG scFv-antibody libraries. Amplification of immunoglobulin variable gene fragments from single B cell clones.
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	Each primer is Supplied as a liquid in 10 mM Tris-HCl pH 8, 1 mM sodium EDTA.
Storage:	-20 °C
Storage Comment:	-20°C

Publications

Product cited in:	Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)
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