## Analysis Report

## Monoclonal Antibody Development Stage 5 Report for Project \#XXXXX

Item 1 - Antibody Sequences:
The client picked 3 colonies: XXXX; XXXX; and XXX. The clone DNAs were amplified and cloned into a vector. Sanger sequencing was carried out to determine the coding sequences of the antibodies.

Clone XXXX (Signal peptide - Variable region - Constant region)
Heavy chain DNA sequence
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## Heavy chain protein sequence

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## Light chain DNA sequence

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## Light chain protein sequence

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Clone XXXX (Signal peptide - Variable region - Constant region)

## Heavy chain DNA sequence

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Clone XXX (Signal peptide - Variable region - Constant region)

## Heavy chain DNA sequence

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## Light chain DNA sequence

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## Light chain protein sequence

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Item 2 - Purified Antibodies
Expi293 cells were transfected with expression plasmids of clones XXXX; XXXX; and XXX. After 4 days antibodies were purified by Protein A chromatography method. The concentrations of the antibodies were measured using Nanodrop.

| Antibody |  |  |  |
| :--- | :---: | :---: | :---: |
| Concentration | $2.54 \mathrm{mg} / \mathrm{mL}$ | $0.84 \mathrm{mg} / \mathrm{mL}$ | $1.11 \mathrm{mg} / \mathrm{mL}$ |
| Volume | $300 \mu \mathrm{~L}$ | $600 \mu \mathrm{~L}$ | $1300 \mu \mathrm{~L}$ |

Item 3 - Plasmids

| Plasmid |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Concentration | $100 \mathrm{ng} / \mu \mathrm{L}$ | $100 \mathrm{ng} / \mu \mathrm{L}$ | $100 \mathrm{ng} / \mu \mathrm{L}$ | $100 \mathrm{ng} / \mu \mathrm{L}$ | $100 \mathrm{ng} / \mu \mathrm{L}$ | $100 \mathrm{ng} / \mu \mathrm{L}$ |
| Volume | $100 \mu \mathrm{~L}$ | $100 \mu \mathrm{~L}$ | $100 \mu \mathrm{~L}$ | $100 \mu \mathrm{~L}$ | $100 \mu \mathrm{~L}$ | $100 \mu \mathrm{~L}$ |

## Appendix - Antibody vector sequence

The plasmids can be used directly for expressing antibodies in mammalian cells. The expression levels vary with antibody sequences. For high level expression, it is recommended to clone the cDNA into commercial mammalian expression vectors, such like pcDNA vectors. The plasmid is Ampicillin resistant.

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