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**REQUEST FOR CONSTRUCTION OF TARGETING VECTOR**

PI \_\_\_\_\_

Fund No \_\_\_\_\_

Tel \_\_\_\_\_

Date \_\_\_\_\_

Contact person (full name) \_\_\_\_\_

Tel \_\_\_\_\_

\*E-mail (Required) \_\_\_\_\_ Fax \_\_\_\_\_

**Please attach a separate sheet detailing the targeting vector following the guidelines below.**

Only **final** cloning strategies will be accepted. We strongly recommend not to synthesize any PCR primers before the strategy is completely laid out. Construction of a targeting vector is complex and therefore it is extremely important to describe the cloning strategy clearly, precisely and entirely. Please take your time to figure out your strategy and re-check it several times until you are sure that it is correct.

Please draw a detailed sketch of the final targeting vector on a separate sheet.

**Please do not use copies of existing maps of cloning vectors with genomic arms pasted in. Rather draw all parts of the final targeting vector by hand or use software such as vector NTI to describe the final vector electronically. Please use large letters that are easy to read. Your figure should be sufficient to describe the entire cloning procedure and should contain the following information:**

1. The name of the basic cloning vector to be used together with the left arm and right arm (and middle arm for conditional vectors) including the approximate lengths of all arms as well as all exons and introns contained in the arms.
2. All restriction sites that must be used in your cloning strategy as well as restriction sites that can be used to determine the correct orientation of the arms. To indicate the precise cloning strategy, please label which arm will be cloned first, which one second, etc..
3. Every PCR primer used to generate the genomic arms together with the name of each primer and any integrated restriction sites and/or loxP sites. Primer names must exactly match the label on the relevant tubes.
4. The positive and negative selection markers together with their promoters and poly A sites and all FRT and/or loxP sites present in the final construct.