

KOR vs CRISPR Comparison

Choosing the Right Model for Your Research



MODEL	 KOR (Knockout Repository)	 CRISPR (Clustered Regularly Interspersed Palindromic Repeats)
DESCRIPTION	Repository of 4,000+ models covering broad classes of druggable targets Proprietary ES-cell based gene targeting using gene trapping technology Covers 17% of the mouse nuclear genome	Custom model generation with Taconic's extensive expertise and experience Uses state of the art CRISPR/Cas9 method May be applied to any region of the mouse nuclear genome
DELIVERABLES	KOR is cryopreserved. 4 Het mutant mice can be revitalized from the repository and delivered at 8 weeks of age in 14-16 weeks	A minimum of 2 founder mice at 8 weeks of age can be delivered in 12-16 weeks. 4 G1 Het mutant mice at 8 weeks of age can be delivered in 23-29 weeks
GENETIC BACKGROUND	Mixed 129S5; B6	B6 or other strain (e.g. BALB/c)
SPECIES	Mouse	Mouse, Rat
PHENOTYPE	May be described in literature Phenotypic data may be purchased	Need to be characterized
ADVANTAGES	Largest commercial KO repository Characterized models with validated genotyping protocols and germline transmission confirmed Phenotypic data are available for most models	Rapid production of cohort on pure genetic background, no need for backcrossing Faster, simpler and more efficient than traditional gene targeting approach Models are generated based on current genomics knowledge. This reduces the risk of modifying genomic elements such as regulatory modules that might lead to phenotypes unrelated to the deletion of the target genes
DISADVANTAGES	Mixed genetic background can result in incomplete penetrance and variable expression in phenotypes Changing from a mixed genetic background to a pure background requires 5-7 generations of backcrossing, i.e. 15-21 months of breeding Phenotypic data may be limited in some instances	Potential off-target effects, however so far no off-targets have been described using the approach applied by Taconic Potential of mosaicism in founder mice, i.e. founder animals might carry different mutations at the on-target site. Need to generate G1 animals to ensure the desired mutation is transmitted in the germline
TERMS OF SALE (TOS)	TOS permits the customer to breed and crossbreed the KOR model for its own research with no time limitation TOS does not permit the researchers to transfer the KOR model or any material to a third party If the customer wants to engage a third party service provider (CRO) then it must first enter into a three-way MTA and pays a \$7,500 annual fee	TOS permits the customer to breed and crossbreed the CRISPR model for its own research with no time limitation CRISPR models may be transferred to third parties that are engaged in collaborative research and development with a customer only under a written agreement The customer may also engage a service provider to breed CRISPR model on behalf of customer

DISCUSS YOUR NEEDS

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