

GM-UNIT

PRICES (VAT 0 %)

MOUSE WORK	UH customer	Others	Description
DNA pronucleus injection (FVB)	2 500 €	3 500 €	~ 250 injected oocytes
DNA pronucleus injection (BL/6)	3 795 €	4 900 €	~ 250 injected oocytes
Morula aggregation	3 000 €	4 000 €	~ 120 aggregates
CRISPR/Cas9, FVB	2 875 €	4 000 €	
CRISPR/Cas9, BL/6	3 450 €	4 400 €	
Embryo freezing	1 750 €	2 900 €	~ 250 frozen morulae
Sperm cryopreservation	400 €	750 €	Min. 20 straws
Sperm cryopreservation (+IVF test)	1 000 €	2 000 €	Min. 20 straws
Cryopreservation package	1 815 €	3 450 €	Incl. 150 frozen morulae + 10 sperm straw without IVF-test
Recovery from frozen embryos	500 €	880 €	Strain recovery
Strain recovery from frozen sperm	1 350 €	2 600 €	Strain recovery
Pathogen removal	1 000 €	1 850 €	Pathogen free strain
Other mouse work	60 €/h + reagents	90 €/h + reagents	On agreement
Feeders wt/neo	50/70 €		Per ampulle
RAT WORK			
Pronukleus injection	3 500 €	4 750 €	
CRISPR/Cas9	2 750 €	4 200 €	
Embryo freezing	2 500 €	3 750 €	
Recovery from frozen embryos	800 €	1 500 €	
Pathogen removal	1 500 €	2 700 €	
OTHER SERVICES			
Design of the strategy for genome editing	800 €	1200 €	
Design and set-up of genotyping	575 €	800 €	
CRISPR-reagents	Project dependent price		
Shipment of cryopreserved GM-line	55€	80€	
Receiving of cryopreserved GM-line	55€	80€	
Cryopreservation fee (N2)	55€/strain		

WORK	DESCRIPTION
DNA pronucleus injection	Production of transgenic mice by pronuclear injection of a plasmid-based DNA construct. BAC DNA may also be used on agreement. The customer provides the DNA, which has been prepared according to the instructions from the GM mouse unit. Appr. 250 fertilized oocytes are injected and transferred to a pseudopregnant female. Injected oocytes can be from FVB or C57BL/6 strain. The fee includes animal expenses until weaning of the founder mice.
Morula aggregation	Production of chimeric mice by aggregating embryonic stem (ES) cells (inc. C57BL/6 ES cells) with morula stage embryos. The customer provides the ES cells, which have been cultured according to the instructions from the GM mouse unit. Appr. 120 ES cell-morula aggregates are produced and transferred to a pseudopregnant female. The fee includes animal expenses until weaning of the chimeras.
CRISPR/Cas9	Production of genetically modified mice by cytoplasmic or pronuclear injection of guide-RNA+Cas9 mRNA or protein. The customer provides (preferentially) commercially produced guide-RNAs or equal purity of house-made RNAs, and the GM unit provides Cas9 mRNA or protein. Appr. 250 fertilized oocytes are injected and transferred to a pseudopregnant female. Injections can be done to zygotes derived either from FVB or C57BL/6 strain. The fee includes animal expenses until weaning of the founder mice.
Embryo freezing	Approximately 250 morula stage embryos/strain are frozen and stored in liquid N2. The customer reserves 6-8 fertile males for the GM mouse unit for the freezing process. Success of embryo freezing is tested by thawing small amount of embryos. The customer pays for the mouse care costs of the males during the freezing process.
Sperm cryopreservation (+IVF test)	The customer provides two young (3-6 month old) males, from which sperm will be frozen into at least 20 straws. The cryopreservation is confirmed by in vitro fertilization (IVF) test: sperm from one thawed straw is used to fertilize oocytes (collected from two superovulated females) on a culture dish. The fertilization percentage will depend on the background strain used.
Recovery from frozen embryos	A mouse strain is recovered by thawing cryopreserved embryos (from two straws), which are transferred to recipient females. The fee includes animal expenses until weaning.
Strain recovery from frozen sperm	Sperm from one or two straws is used to fertilize oocytes (collected from four superovulated females) on a culture dish. The resulting 2-cell embryos are transferred to recipient females. The fee includes animal expenses until weaning.
Pathogen removal	Cleaning of a mouse strain from pathogens by embryo transfer. For production of the embryos, males of the strain to be cleaned are mated with clean superovulated wild-type females. The fee includes animal expenses until weaning and the health monitoring costs. If unsuccessful, the GM unit will charge only the animal expenses.
Other services	The GM mouse unit has experience on tetraploid aggregation, BAC DNA and cytoplasmic injection, production of new ES cell lines, etc. The customer is charged based on the time spent on the service. In addition, the customer pays the mouse and reagent costs of the services requested.
Feeders wt/neo	Primary fibroblast cells isolated from wild typed or NeoR E12.5 mouse embryos and treated with mitomycin C. For culture of mouse ES cells. Neo feeders are used during selection after electroporation with NeoR containing targeting vectors.