

The first selenocysteine amino acid residue of Sepp1 has been mutated to a serine. This results in decreased enzymatic activity of Sepp1. In addition, multiple shortened forms of the protein are made and found in the plasma.

Keywords: [U40S](#) [Sepp1](#) [Burk](#) [targeted mutation 4.1](#)

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Mouse Information

Common Name	Sepp1 U40S
VCMR ID	SS
Date Cryopreserved	2014-08-05
Method of Cryopreservation	Sperm
Trial IVF % Fertilization	28.00%

Genetic Alteration

Mutation #1: Targeted Mutagenesis	
Allele	Name: selenoprotein P; targeted mutation 4.1, Raymond F Burk Symbol: Selenop tm 4.1Rfb MGI: MGI:5616347
Zygoty at cryopreservation	Homozygous
PCR Genotyping Protocol	Genotyping_Protocol_SS.pdf
Citations	<p>Publication</p> <p><u>Sepp1(UF) forms are N-terminal selenoprotein P truncations that have peroxidase activity when coupled with thioredoxin reductase-1.</u> (2014) <i>Free Radic Biol Med</i> 69: 67-76 (Added 3/10/2014) PMID: 24434121</p>

Background Strain Information

Strain Type	Congenic Strain
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Chimera/Founder Genetic Background	C57BL/6
Cryopreservation Strain Background (VCMR)	C57BL/6J
Viability and Fertility Data	Homozygous and heterozygous viable and fertile.
