E130308A19Rik<em1(IMPC)J>:

This allele was generated at The Jackson Laboratory by electroporating Cas9 protein and 2 guide sequences TCTTATCCTGTGTGGACAGT and GCAGAATTCTTAGGTACGCG, which resulted in a 1432 bp deletion beginning at Chromosome 4 position 59,689,958 bp and ending after 59,691,389 bp (GRCm38/mm10). This mutation deletes ENSMUSE00000339543 (exon 2) and 237 bp of flanking intronic sequence including the translation start and is predicted to result in a null allele.