

# Gria1-KO

|      |                                              |
|------|----------------------------------------------|
| 品系全名 | C57BL/6Smoc- <i>Gria1</i> <sup>em1Smoc</sup> |
| 目录号  | NM-KO-190582                                 |
| 品系状态 | 胚胎冻存                                         |

## 基因信息

|              |            |                                                                                 |
|--------------|------------|---------------------------------------------------------------------------------|
| 基因名<br>Gria1 | 基因曾用名      | Glr1, Glr-1, GluA1, GluRA, Glur1, HIPA1, GluR-A, Glur-1, glur-K1, 2900051M01Rik |
|              | NCBI ID    | <a href="#">14799</a>                                                           |
|              | MGI ID     | <a href="#">95808</a>                                                           |
|              | Ensembl ID | <a href="#">ENSMUSG00000020524</a>                                              |
|              | 人类同源基因     | GRIA1                                                                           |
|              | 人类同源基因关联疾病 | 精神分裂症、抑郁                                                                        |

## 品系描述

敲除Gria1基因exon 3-4，建立Gria1基因敲除小鼠模型。

**应用领域：**该基因编码的蛋白质是谷氨酸受体,它是哺乳动物大脑中主要的兴奋性神经递质受体，在多种正常的神经生理过程中被激活，该基因属于-氨基-3-羟基-5-甲基-4-异恶唑丙酸盐(AMPA)受体家族。

\*使用本品系发表的文献需注明: Gria1-KO mice (Cat. NO. NM-KO-190582) were purchased from Shanghai Model Organisms Center, Inc..

## 疾病预测

|                                    |         |                                                                                                                                                                                                                                                                                                                |
|------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 分裂情感障碍<br>Schizoaffective Disorder | 近似模型的表型 | <a href="#">MGI:4888959</a>                                                                                                                                                                                                                                                                                    |
|                                    | 参考文献    | Fitzgerald PJ, Barkus C, Feyder M, Wiedholz LM, Chen YC, Karlsson RM, Machado-Vieira R, Graybeal C, Sharp T, Zarate C, Harvey-White J, Du J, Sprengel R, Gass P, Bannerman D, Holmes A, Does gene deletion of AMPA GluA1 phenocopy features of schizoaffective disorder?. Neurobiol Dis. 2010 Dec;40(3):608-21 |

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## 验证数据

暂无数据

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