

Resource Summary Report

Generated by [NIF](#) on Sep 9, 2026

B6.129-Eya1^{tm1Rilm}/Mmucd

RRID:MMRRC_000361-UCD

Type: Organism

Proper Citation

RRID:MMRRC_000361-UCD

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=361

Proper Citation: RRID:MMRRC_000361-UCD

Description: Mus musculus with name B6.129-Eya1^{tm1Rilm}/Mmucd from MMRRC.

Species: Mus musculus

Notes: Research areas: Developmental Biology; Mutation Type: Targeted Mutation ; Collection:

Phenotype: abnormal inner ear morphology [MP:0000026]| abnormal cochlea morphology [MP:0000031]| abnormal lateral semicircular canal morphology [MP:0000037]| absent endolymphatic duct [MP:0000041]| absent premaxilla [MP:0000090]| abnormal basisphenoid bone morphology [MP:0000106]| rib fusion [MP:0000154]| double outlet right ventricle [MP:0000284]| decreased cell proliferation [MP:0000352]| microcephaly [MP:0000433]| abnormal cranium morphology [MP:0000438]| abnormal jaw morphology [MP:0000454]| mandible hypoplasia [MP:0000460]| abnormal pulmonary artery morphology [MP:0000484]| absent kidney [MP:0000520]| absent parathyroid glands [MP:0000680]| athymia [MP:0000705]| abnormal skeletal muscle morphology [MP:0000759]| abnormal facial nerve morphology [MP:0001071]| abnormal vestibulocochlear nerve morphology [MP:0001072]| abnormal geniculate ganglion morphology [MP:0001082]| absent petrosal ganglion [MP:0001086]| eyelids open at birth [MP:0001302]| abnormal thyroid cartilage morphology [MP:0002260]| abnormal semicircular canal morphology [MP:0002428]| persistent truncus arteriosus [MP:0002633]| pituitary gland hypoplasia [MP:0002659]| cochlear ganglion degeneration [MP:0002857]| abnormal posterior semicircular canal morphology [MP:0002858]| abnormal cardiovascular development [MP:0002925]| abnormal hyoid bone morphology [MP:0003056]| absent malleus processus brevis [MP:0003110]| anotia [MP:0003142]| absent cochlea [MP:0003147]| decreased cochlear coiling [MP:0003148]| absent lateral semicircular canal [MP:0003161]| decreased lateral semicircular canal size [MP:0003162]| absent posterior semicircular canal [MP:0003163]| decreased posterior semicircular canal size

[MP:0003164] decreased superior semicircular canal size [MP:0003166] renal hypoplasia [MP:0003446] thyroid hypoplasia [MP:0003499] single kidney [MP:0003604] small lung [MP:0003641] absent ureter [MP:0003722] fusion of middle ear ossicles [MP:0003740] abnormal craniofacial development [MP:0003935] abnormal aortic arch morphology [MP:0004113] interrupted aortic arch [MP:0004157] right aortic arch [MP:0004158] retroesophageal right subclavian artery [MP:0004160] absent stapes [MP:0004204] abnormal epaxial muscle morphology [MP:0004248] absent vestibular ganglion [MP:0004299] small otic vesicle [MP:0004310] absent inner ear vestibule [MP:0004314] absent vestibular sacculle [MP:0004315] small vestibular sacculle [MP:0004317] decreased vestibular hair cell number [MP:0004328] increased cochlear inner hair cell number [MP:0004395] abnormal vestibular labyrinth morphology [MP:0004427] abnormal pterygoid process morphology [MP:0004452] abnormal pubis morphology [MP:0004506] abnormal ischium morphology [MP:0004507] abnormal orientation of cochlear hair cell stereociliary bundles [MP:0004522] decreased outer hair cell stereocilia number [MP:0004529] absent maxilla [MP:0004539] cervical vertebral fusion [MP:0004620] conductive hearing loss [MP:0004739] impaired branching involved in ureteric bud morphogenesis [MP:0004936] abnormal cell differentiation [MP:0005076] abnormal middle ear ossicle morphology [MP:0005105] abnormal incus morphology [MP:0005106] abnormal stapes morphology [MP:0005107] abnormal extraocular muscle morphology [MP:0005247] abnormal zygomatic bone morphology [MP:0005270] abnormal temporal bone morphology [MP:0005272] small cranium [MP:0005352] small pituitary gland [MP:0005361] absent outer ear [MP:0005579] abnormal endolymphatic duct morphology [MP:0006011] abnormal tympanic membrane morphology [MP:0006018] decreased tympanic ring size [MP:0006020] abnormal otic vesicle development [MP:0006030] abnormal ureteric bud morphology [MP:0006032] abnormal external auditory canal morphology [MP:0006033] increased apoptosis [MP:0006042] abnormal vestibular sacculle morphology [MP:0006089] abnormal utricle morphology [MP:0006090] abnormal cardiac outflow tract development [MP:0006126] absent hypaxial muscle [MP:0006284] absent inner ear [MP:0006285] abnormal lung epithelium morphology [MP:0006382] increased otic epithelial cell apoptosis [MP:0008063] decreased otic epithelial cell proliferation [MP:0008064] short endolymphatic duct [MP:0008065] abnormal sternocostal joint morphology [MP:0008148] abnormal semicircular canal ampulla morphology [MP:0008488] abnormal palate development [MP:0009653] absent external auditory canal [MP:0009707] abnormal mitotic spindle morphology [MP:0009760] cleft secondary palate [MP:0009890] decreased palatine bone horizontal plate size [MP:0009895] decreased maxillary shelf size [MP:0009897] abnormal hyoid bone lesser horn morphology [MP:0009914] vascular ring [MP:0010466] absent ureteric bud [MP:0010978] neonatal lethality [MP:0011087] complete penetrance [MP:0011386] increased metanephric mesenchyme apoptosis [MP:0011967] increased or absent threshold for auditory brainstem response [MP:0012729] abnormal common carotid artery morphology [MP:0013163] absent thyroid gland isthmus [MP:0013222] abnormal first pharyngeal pouch morphology [MP:0013290] persistent ultimobranchial bodies [MP:0030097] preauricular pit [MP:0030155] absent tympanic cavity [MP:0030161] absent auditory bulla [MP:0030204] large nasal septum [MP:0030421] tongue muscle hypoplasia [MP:0030426]

Affected Gene: Eya1

Catalog Number: 000361-UCD

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:10471511](#)

Alternate IDs: MMRRC_361-UCD, MMRRC_000361, MMRRC_361

Organism Name: B6.129-*Eya1*^{tm1Rilm}/Mmucd

Record Creation Time: 20230308T054752+0000

Record Last Update: 20260905T110215+0000

Ratings and Alerts

No rating or validation information has been found for B6.129-*Eya1*^{tm1Rilm}/Mmucd.

No alerts have been found for B6.129-*Eya1*^{tm1Rilm}/Mmucd.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Mutant Mouse Resource and Research Center (MMRRC)

Usage and Citation Metrics

We have not found any literature mentions for this resource.