

Resource Summary Report

Generated by [RRID](#) on Jul 31, 2026

[gpc4hi1688Tg/+ \(AB\)](#)

RRID:ZIRC_ZL541

Type: Organism

Proper Citation

RRID:ZIRC_ZL541

Organism Information

URL:

http://zebrafish.org/fish/lineAll.php?t=ZIRC_Catalog_ID&sverb=exactly+matching&c=ZL541

Proper Citation: RRID:ZIRC_ZL541

Description: Danio rerio with name Tg(nLacZ-GTvirus) from ZIRC.

Species: Danio rerio

Notes: Transgenic Insertion

Phenotype: adaxial cell, anterior neural plate, anterior-posterior polarized posterior lateral line neuromast, axis, axis elongation, cell, cell migration involved in gastrulation, cell morphogenesis, ceratobranchial 5 bone, ceratohyal cartilage, chondrocyte, convergent extension, convergent extension involved in axis elongation, convergent extension involved in gastrulation, cranial cartilage, dorsal convergence, dorsal lateral line neuromast, dorsal-ventral polarized posterior lateral line neuromast, endochondral bone, endochondral ossification, endoderm, endothelial cell, ethmoid cartilage, extension, eye, floor plate, forebrain, glycosaminoglycan metabolic process, head, head muscle, hypophyseal fenestra, interhyal cartilage, intermandibularis, Kupffer's vesicle, mandibular arch skeleton, maxilla, Meckel's cartilage, mesodermal cell migration, muscle cell migration, myotome, neural keel, neurocranial trabecula, notochord, notochord formation, notochord morphogenesis, notochord posterior region, ossification, palate, palatoquadrate cartilage, pancreas development, pancreatic bud, pharyngeal arch 3-7 skeleton, pharyngeal arch cartilage, post-anal tail morphogenesis, posterior lateral line neuromast primordium migration, posterior lateral line primordium, post-vent region, prechordal plate, pronephric duct, quadrate, quadrate-anguloarticular joint, retroarticular, rhombomere, slow muscle cell, somite, striated muscle cell development, symplectic, trunk, ventral fin fold, whole organism adaxial cell, anterior neural plate (all 70)

Affected Gene: gpc4hi1688Tg/+ (AB)

Genomic Alteration: hi1688Tg

Catalog Number: ZL541

Background: AB

Database: Zebrafish Lines at ZIRC

Database Abbreviation: ZIRC

Availability: frozen

Organism Name: gpc4hi1688Tg/+ (AB)

Record Creation Time: 20230308T015102+0000

Record Last Update: 20260725T182653+0000

Ratings and Alerts

No rating or validation information has been found for gpc4hi1688Tg/+ (AB).

No alerts have been found for gpc4hi1688Tg/+ (AB).

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Zebrafish Lines at ZIRC

Usage and Citation Metrics

We found 2 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Ling IT, et al. (2017) Distinct requirements of wls, wnt9a, wnt5b and gpc4 in regulating chondrocyte maturation and timing of endochondral ossification. Developmental biology, 421(2), 219.

Rochard L, et al. (2016) Roles of Wnt pathway genes wls, wnt9a, wnt5b, frzb and gpc4 in regulating convergent-extension during zebrafish palate morphogenesis. Development (Cambridge, England), 143(14), 2541.