

# Resource Summary Report

Generated by [NIF](#) on Aug 27, 2026

## BrainTrap: Fly Brain Protein Trap Database

RRID:SCR\_003398

Type: Tool

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### Proper Citation

BrainTrap: Fly Brain Protein Trap Database (RRID:SCR\_003398)

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### Resource Information

**URL:** <http://braintrap.inf.ed.ac.uk/braintrap/>

**Proper Citation:** BrainTrap: Fly Brain Protein Trap Database (RRID:SCR\_003398)

**Description:** This database contains information on protein expression in the *Drosophila melanogaster* brain. It consists of a collection of 3D confocal datasets taken from EYFP expressing protein trap *Drosophila* lines from the Cambridge Protein Trap project. Currently there are 884 brain scans from 535 protein trap lines in the database. *Drosophila* protein trap strains were generated by the St Johnston Lab and the Russell Lab at the University of Cambridge, UK. The piggyBac insertion method was used to insert constructs containing splice acceptor and donor sites, StrepII and FLAG affinity purification tags, and an EYFP exon (Venus). Brain images were acquired by Seymour Knowles-Barley, in the Armstrong Lab at the University of Edinburgh. Whole brain mounts were imaged by confocal microscopy, with a background immunohistochemical label added to aid the identification of brain structures. Additional immunohistochemical labeling of the EYFP protein using an anti-GFP antibody was also used in most cases. The trapped protein signal (EYFP / anti-GFP), background signal (NC82 label), and the merged signal can be viewed on the website by using the corresponding channel buttons. In all images the trapped protein / EYFP signal appears green and the background / NC82 channel appears magenta. Original .ism image files are also available for download.

**Abbreviations:** BrainTrap

**Synonyms:** Fly Brain Protein Trap Database, Brain Trap

**Resource Type:** d spatial image, data or information resource, database

**Defining Citation:** [PMID:20624714](#)

**Keywords:** brain, exon, expression, 3d confocal, affinity, antibody, dataset, immunohistochemical, microscopy, image, protein, protein-trap, gene

**Funding:** EPSRC ;  
British society for Developmental Biology ;  
Society for Experimental Biology ;  
Virtual Fly Brain e-Science Institute Theme ;  
BBSRC ;  
MRC

**Availability:** Free, Freely available

**Resource Name:** BrainTrap: Fly Brain Protein Trap Database

**Resource ID:** SCR\_003398

**Alternate IDs:** nif-0000-32989

**Old URLs:** <http://fruitfly.inf.ed.ac.uk/braintrap/>

**Record Creation Time:** 20220129T080218+0000

**Record Last Update:** 20260821T193700+0000

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## Ratings and Alerts

No rating or validation information has been found for BrainTrap: Fly Brain Protein Trap Database.

No alerts have been found for BrainTrap: Fly Brain Protein Trap Database.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Lowe N, et al. (2014) Analysis of the expression patterns, subcellular localisations and interaction partners of Drosophila proteins using a pigP protein trap library. Development (Cambridge, England), 141(20), 3994.