

# How to search by Gene

- EMAGE is used to archive and spatially map gene expression patterns from a variety of sources including, large *in situ* hybridisation screens (EurExpress, FaceBase), the GXD and the published literature as well as unpublished direct submissions from developmental biology labs.

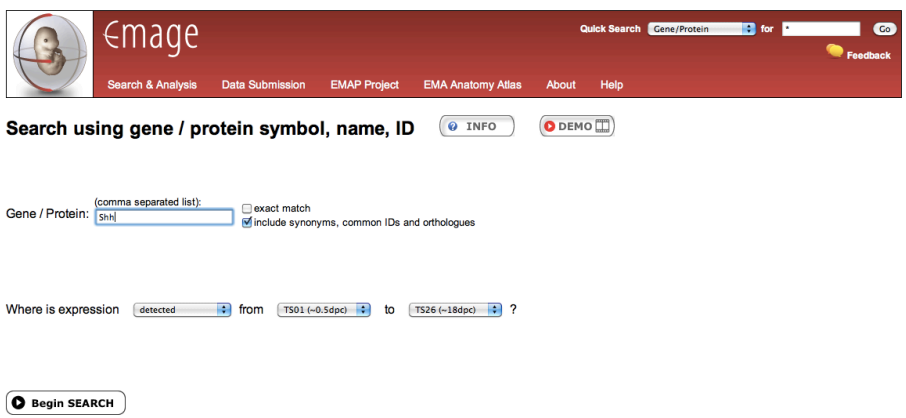
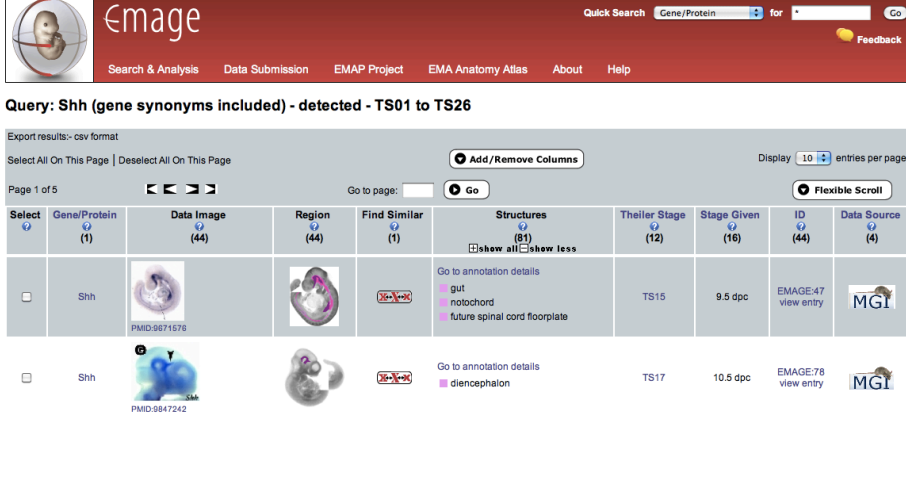
The screenshot displays the EMAGE web interface. At the top, there is a navigation bar with the EMAGE logo, a search bar for 'Gene/Protein', and links for 'Search' and 'Feedback'. Below the navigation bar, the main content area is divided into several sections:

- Content:** A sidebar on the left showing statistics: Genes/Proteins: 17554, Assays: 32679, Stages: 22, Images: 429329.
- What's New?:** A sidebar on the left listing recent updates: 06 Sep 2016 Clonal analysis lineage data, TRACER enhancer data, VISTA enhancer data, EMBRYOS gene expression data, and 3D OPT mapping now available.
- Spatial Search:** A central section with a sub-section for 'Embryo Space' showing a map of an embryo with gene expression patterns.
- Query Entries:** A central section with three sub-sections: 'Combination' (listing genes like Wnt1, Id4, Fgf8, Tbx4), 'Gene' (listing genes like cadherin6b, Wnt1, Id4, Fgf8, Aldh1a2, Lhx6, Tbx4, Nkx6-1, T, Mx1, Collagen Type II, alpha 1, Sry), and 'Anatomy Name' (listing terms like node, mesenchyme, somite, headfold, eye, branchial arch, vagus X, otocyst, lens, midgut).
- Gene & Pathway Summaries:** A central section with three sub-sections: 'Gene Summary' (showing a gene structure diagram), 'Pathway' (showing a metabolic pathway diagram), and 'Gene Association' (showing a network diagram).
- Analysis Tools:** A central section with three sub-sections: 'Similar Patterns' (showing a grid of gene expression images), 'Direct Access' (showing a database icon and a laptop icon), and 'Example Data' (showing a gene expression image).

At the bottom of the interface, there is a section titled 'The EMAGE Web Interface'.

- Gene, Anatomy, and Embryo Space queries allow the user to find gene expression patterns easily.

- For a gene query, click on **Gene** and do the following.

<p>Type in a Gene Symbol</p>	
<p>View list of entries, click on an EMAGE ID for more details</p>	
<p>View a complete EMAGE entry</p>	