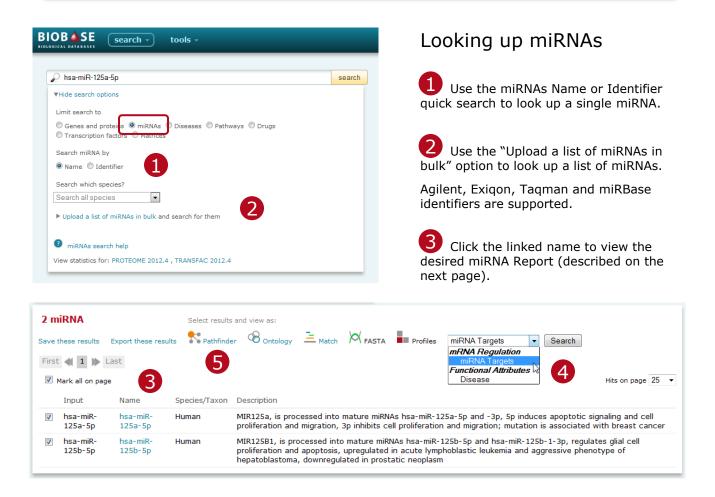


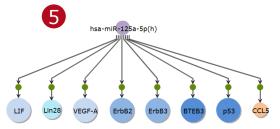
miRNAs are small RNAs that post-transcriptionally regulate gene expression through sequence-specific binding that typically promotes mRNA degradation or prevents mRNA translation. In recent years aberrant miRNA expression has been linked to numerous diseases, fueling research into these important regulators and their targets.

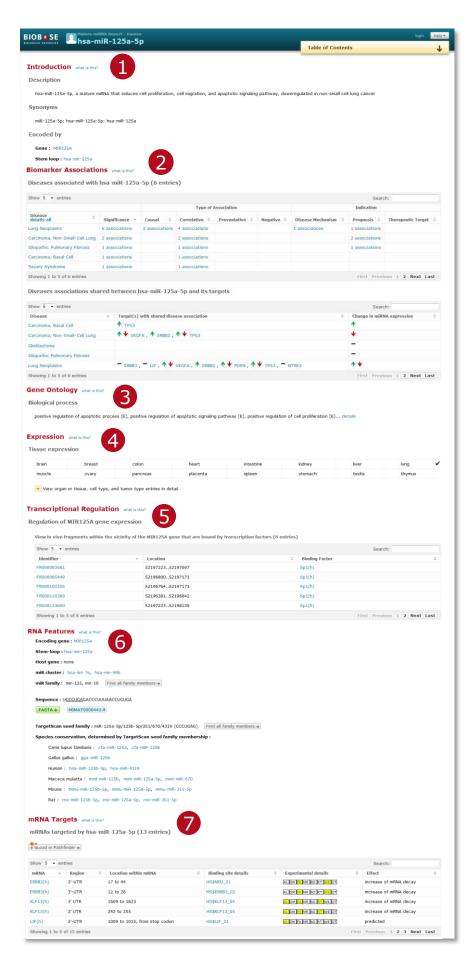
BIOBASE integrates high quality literature-curated content describing the functional attributes of human, mouse and rat miRNAs with structural data from miRBase to enable easy look up and retrieval of information for a single miRNA or lists of miRNAs. Additional vertebrate species are included for comparison purposes, but are not annotated.



Use the "miRNA Targets" or "Disease" option in the search results to quickly identify targets or diseases that are shared by the miRNAs in your list (miRNA Targets option for TRANSFAC® only).

5 View miRNA-target interaction networks in the Pathfinder visualization tool (TRANSFAC® only).





## miRNA Report Overview

1 The Introduction section provides a description and synonyms for the miRNA.

2 The Biomarker Associations section provides a summary of miRNA-disease relationships (for human miRNAs only). Disease associations shared between the miRNA and its targets are given for concurrent subscribers of TRANSFAC<sup>®</sup> and PROTEOME<sup>™</sup>.

**3** The Gene Ontology section describes functional attributes of the miRNA.

4 The Expression section provides information about the organs, tissues, cells and tumors in which the miRNA is expressed.

5 The Transcriptional Regulation section describes features of the gene which contribute to its regulation (TRANSFAC® only).

**6** The RNA Features section provides information about the host gene, whether the miRNA gene is part of a miR cluster, its genomic location, miR family and TargetScan seed family membership, as well as information about the RNA sequence.

The mRNA Targets section lists the miRNAs experimentally demonstrated targets with links to the detailed Site Report (TRANSFAC<sup>®</sup> only).

Identifer and Reference sections are not displayed.