

# ArrayFusion Step-by-Step Quick Guide

## 1. Select a system...

### 1.1 Select a system...

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↑ outputs will be accumulated here

**Batch Query** get started → [User's Manuals] [Columns in TXT Annotations] [Exam]

1. Select a system... (circled in red)
2. Select a system...
  - Commercial Array Probe IDs
  - Expression Array Systems
  - Exon Array Systems
  - SNP and CGH Array Systems
  - Tiling Array and ChIP-on-chip Systems
  - Public Domain IDs
  - Public Domain
3. ++ Convert genome coordinates in EGR and/or GFF to
4. Upload from a file:

or paste a list:  (IDs should be separated by a new line, example)

### 1.2 Select an array...

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1. Expression Array Systems
2. Select an array... (+ support orthologs, ++ support conversions) (circled in red)
3. Select an array... (+ support orthologs, ++ support conversions)
  - Affymetrix NetAffx Annotations (7/12/06 released)
  - Human Genome U133 Plus 2.0 Array (NCBI 36, March 2006) + ++
  - Human Genome U133A Set (NCBI 36, March 2006) + ++
  - Human Genome U95Av2 Set (NCBI 36, March 2006) + ++
  - Rat Genome 230 2.0 Array (HGSC v3.1, June 2003) +
  - Rat Expression Set 230A (HGSC v3.1, June 2003) +
  - Mouse Genome 430 2.0 Array (NCBI 36, Feb 2006) +
  - Mouse Expression Set 430A (NCBI 36, Feb 2006) +
  - C. elegans Genome Array (Wormbase March 2004) +
  - Agilent Annotations
  - G4110B - Human 1A (V2) (NCBI 35, May 2004) ++
  - G4112A - Human Genome, Whole (NCBI 35, May 2004) ++
4. Upload from a file:

or paste a list:  (IDs should be separated by a new line, example)

## 2. Select outputs

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1. Expression Array Systems
2. Human Genome U133 Plus 2.0 Array (NCBI 36, March 2006) + ++
3. Outputs:
  - TXT tab-delimited annotations
    - + Show orthologs from
  - EGR format for Affymetrix Integrated Genome Browser
  - GFF format for The Generic Genome Browser, e.g. HapMap Public Data
  - ++ Convert genome coordinates in EGR and/or GFF to
4. Upload from a file:

or paste a list:  (IDs should be separated by a new line, example)

## 3. Orthologs: options for TXT annotations

### 3.1 Disabled

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1. Expression Array Systems
2. Human Genome U133 Plus 2.0 Array (NCBI 36, March 2006) + ++
3. Outputs:
  - TXT tab-delimited annotations
    - + Show orthologs from  (circled in red)
  - EGR format for Affymetrix Integrated Genome Browser
  - GFF format for The Generic Genome Browser, e.g. HapMap Public Data
  - ++ Convert genome coordinates in EGR and/or GFF to
4. Upload from a file:

or paste a list:  (IDs should be separated by a new line, example)

### 3.2 Show orthologs

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1. Expression Array Systems
2. Human Genome U133 Plus 2.0 Array (NCBI 36, March 2006) + ++
3. Outputs:
  - TXT tab-delimited annotations
    - + Show orthologs from  (circled in red)
      - no other expression array (disabled)
      - Mouse Genome 430 2.0 Array
      - Mouse Expression Set 430A
      - Rat Genome 230 2.0 Array
      - Rat Expression Set 230A
      - C. elegans Genome Array
  - EGR format for Affymetrix Integrated Genome Browser
  - GFF format for The Generic Genome Browser, e.g. HapMap Public Data
  - ++ Convert genome coordinates in EGR and/or GFF to
4. Upload from a file:

or paste a list:  (IDs should be separated by a new line, example)

## 4. Assembly conversions: options for EGR and/or GFF format

### 4.1 Disabled

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- Expression Array Systems
- Human Genome U133 Plus 2.0 Array (NCBI 36, March 2006) + ++
- Outputs:  TXT tab-delimited annotations  
+ Show orthologs from no other expression array (disabled)  
 EGR format for Affymetrix Integrated Genome Browser  
 GFF format for The Generic Genome Browser, e.g. HapMap Public Data  
++ Convert genome coordinates in EGR and/or GFF to the same assembly (disabled)
- Upload from a file:  Browse...  
or paste a list:   
(IDs should be separated by a new line, example)

Submit → Query Results

### 4.2 Convert genomic coordinates between assemblies

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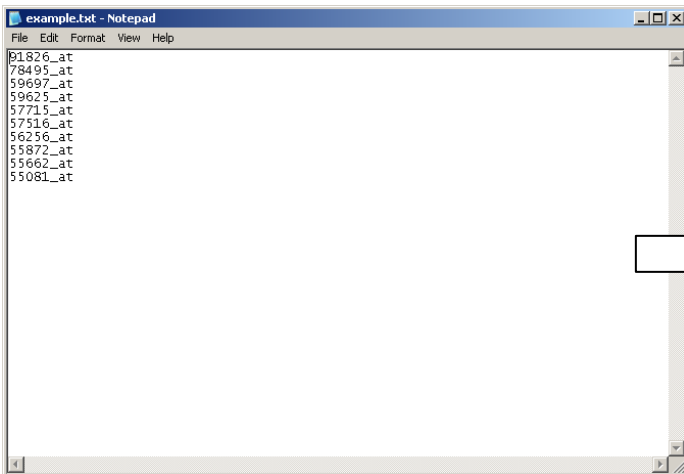
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- Expression Array Systems
- Human Genome U133 Plus 2.0 Array (NCBI 36, March 2006) + ++
- Outputs:  TXT tab-delimited annotations  
+ Show orthologs from no other expression array (disabled)  
 EGR format for Affymetrix Integrated Genome Browser  
 GFF format for The Generic Genome Browser, e.g. HapMap Public Data  
++ Convert genome coordinates in EGR and/or GFF to the same assembly (disabled)
- Upload from a file:  Browse...  
or paste a list:   
(IDs should be separated by a new line, example)

Submit → Query Results

## 5. Input

### 5.1 Upload from a file



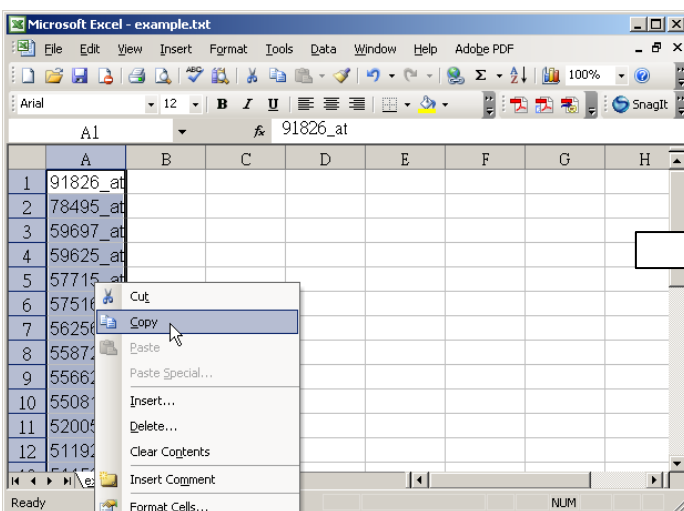
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- Expression Array Systems
- Human Genome U133 Plus 2.0 Array (NCBI 36, March 2006) + ++
- Outputs:  TXT tab-delimited annotations  
+ Show orthologs from no other expression array (disabled)  
 EGR format for Affymetrix Integrated Genome Browser  
 GFF format for The Generic Genome Browser, e.g. HapMap Public Data  
++ Convert genome coordinates in EGR and/or GFF to the same assembly (disabled)
- Upload from a file:  Browse...  
or paste a list:   
(IDs should be separated by a new line, example)

Submit → Query Results

### 5.2 Paste a list in the text area



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- Expression Array Systems
- Human Genome U133 Plus 2.0 Array (NCBI 36, March 2006) + ++
- Outputs:  TXT tab-delimited annotations  
+ Show orthologs from no other expression array (disabled)  
 EGR format for Affymetrix Integrated Genome Browser  
 GFF format for The Generic Genome Browser, e.g. HapMap Public Data  
++ Convert genome coordinates in EGR and/or GFF to the same assembly (disabled)
- Upload from a file:  Browse...  
or paste a list:   
(IDs should be separated by a new line, example)

Submit → Query Results


## 6. Submit

### 6.1 Submit

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#### Batch Query

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1.
2.
3. Outputs:  **TXT** tab-delimited annotations  
+ Show orthologs from   
 **EGR** format for Affymetrix Integrated Genome Browser  
 **GFF** format for The Generic Genome Browser, e.g. HapMap Public Data  
++ Convert genome coordinates in EGR and/or GFF to
4. Upload from a file:

or paste a list:

```
57715_at
57516_at
56256_at
55872_at
55662_at
55681_at
```

(IDs should be separated by a new line, example)

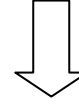
### 6.2 Query results will be accumulated

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#### Query Results

textarea.txt  
textarea.egr  
textarea.gff  
textarea.failure

TXT tab-delimited annotation file (open with spreadsheet programs)  
EGR format for Affymetrix Integrated Genome Browser  
GFF format for The Generic Genome Browser, e.g. HapMap Public Data  
**Invalid query, empty alignments or deleted in new assembly**



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#### Query Results

textarea.txt  
textarea.egr  
textarea.gff  
textarea.failure

TXT tab-delimited annotation file (open with spreadsheet programs)  
EGR format for Affymetrix Integrated Genome Browser  
GFF format for The Generic Genome Browser, e.g. HapMap Public Data  
**Invalid query, empty alignments or deleted in new assembly**

example.txt  
example.egr

TXT tab-delimited annotation file (open with spreadsheet programs)  
EGR format for Affymetrix Integrated Genome Browser