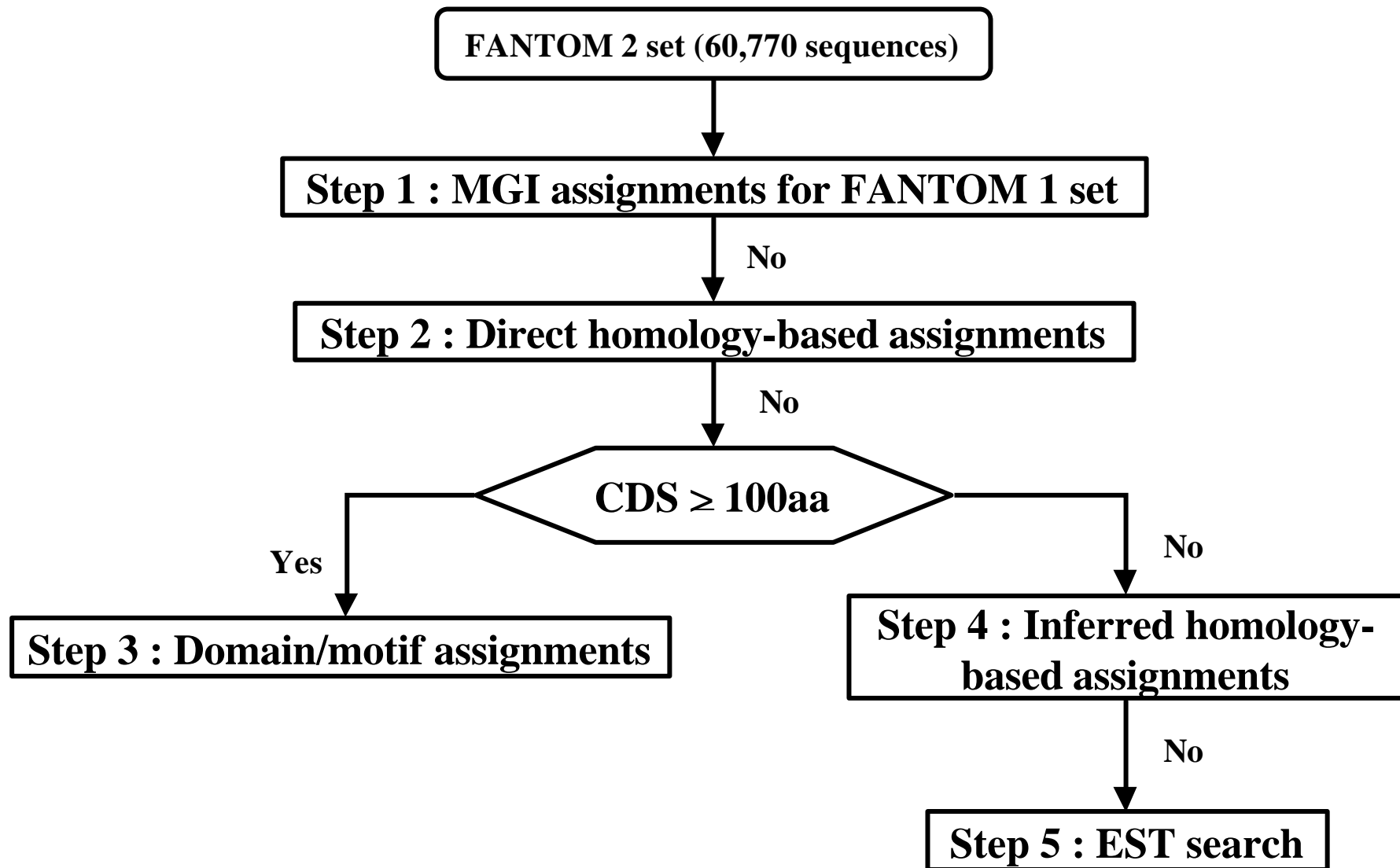
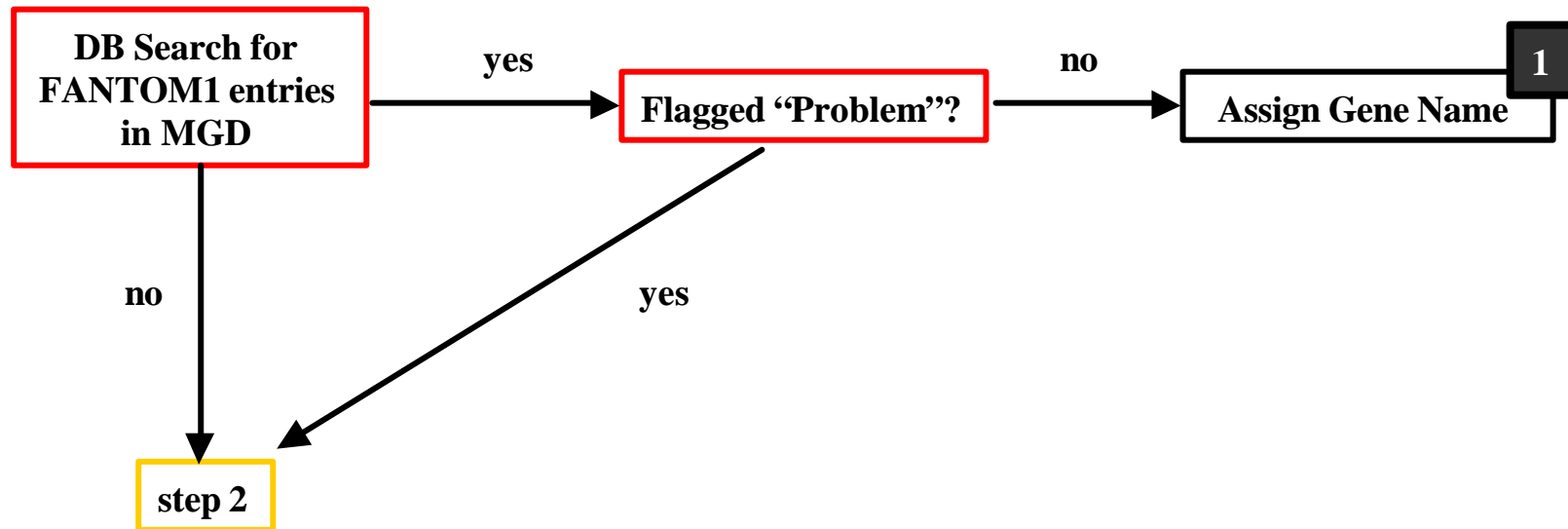


# Supplementary Information 6A



## Supplementary Information 6B

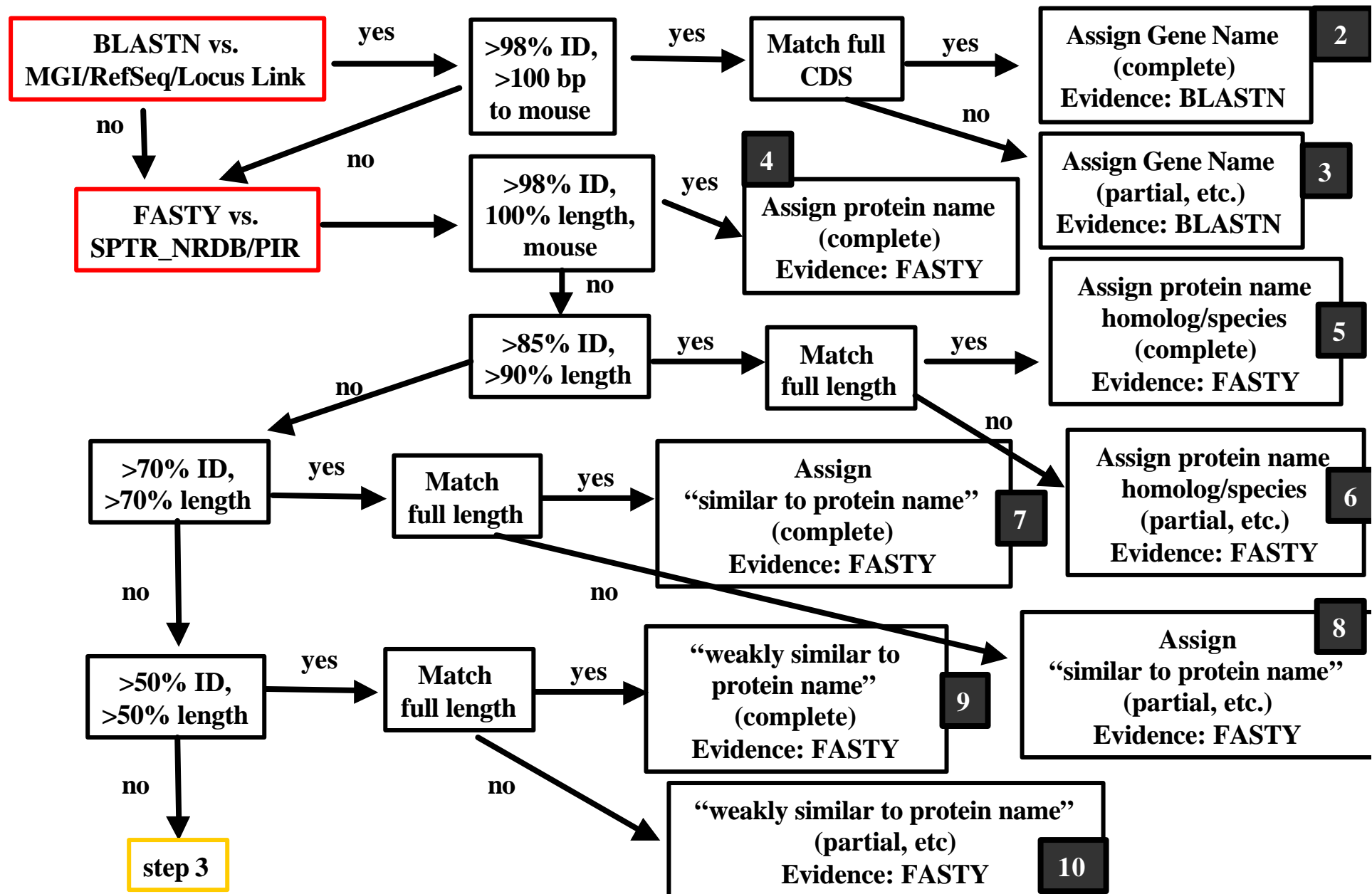
### Step 1: MGI Assignments for FANTOM 1 set



# Supplementary Information 6C

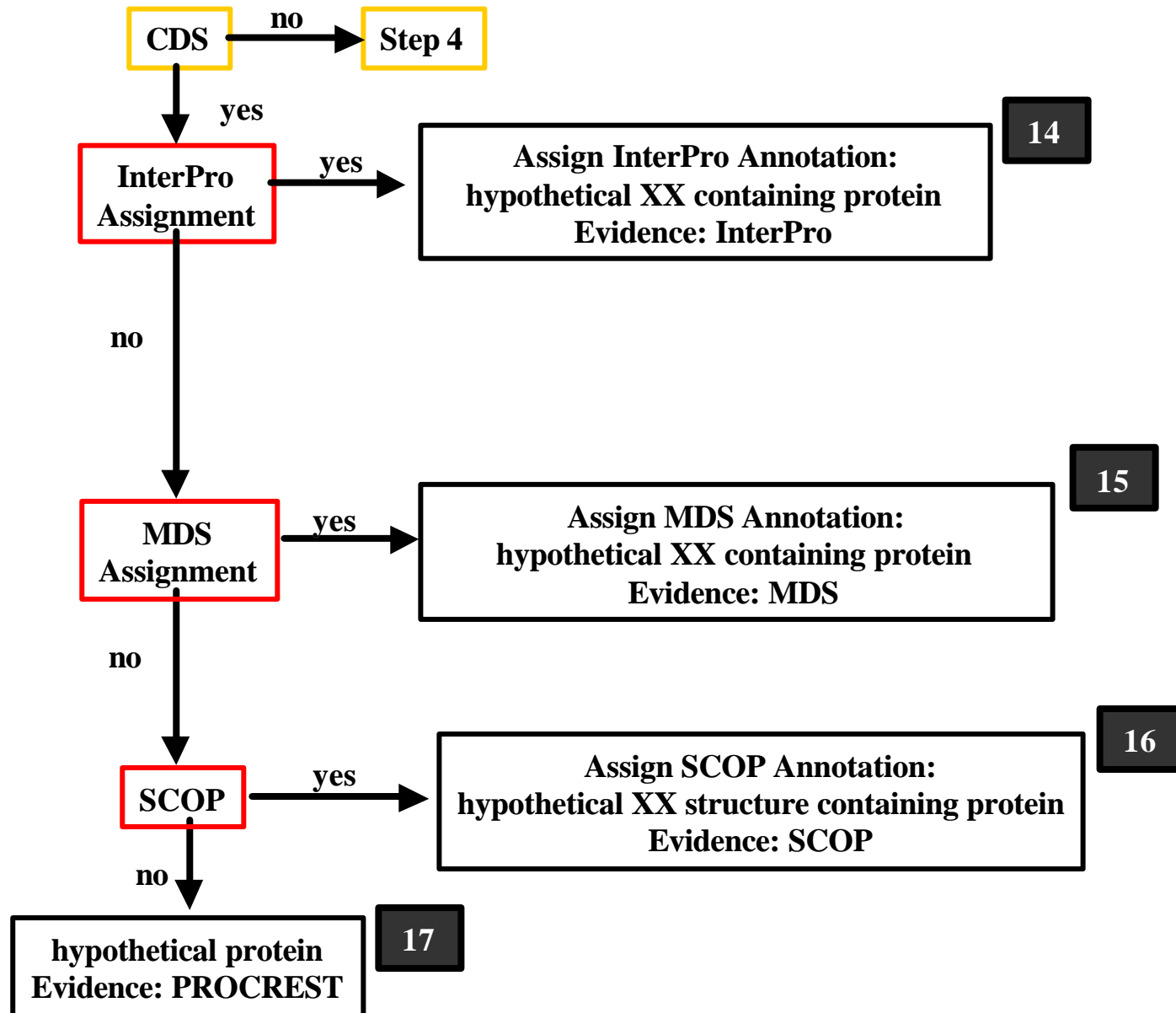
## Step 2: Direct Homology-based Assignments

NOTE: Match status in parenthesis



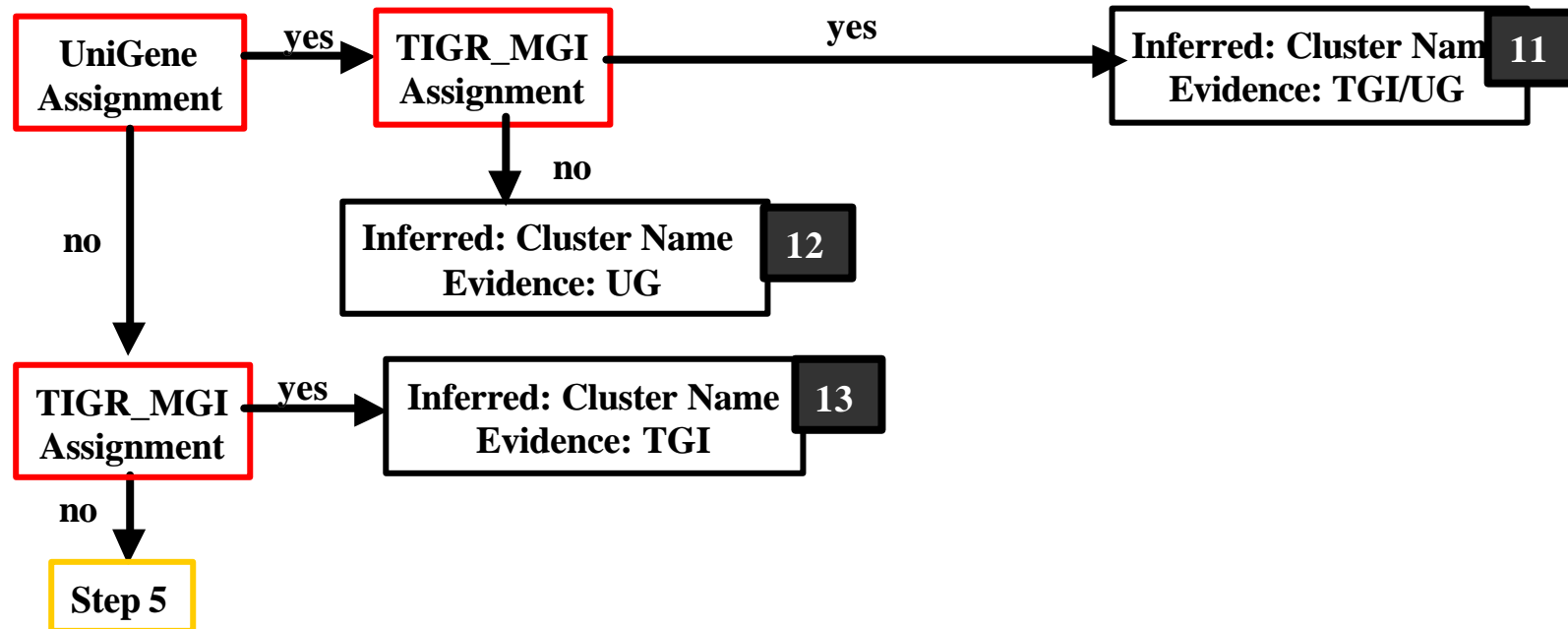
# Supplementary Information 6D

## Step 3: Domain/Motif Assignments

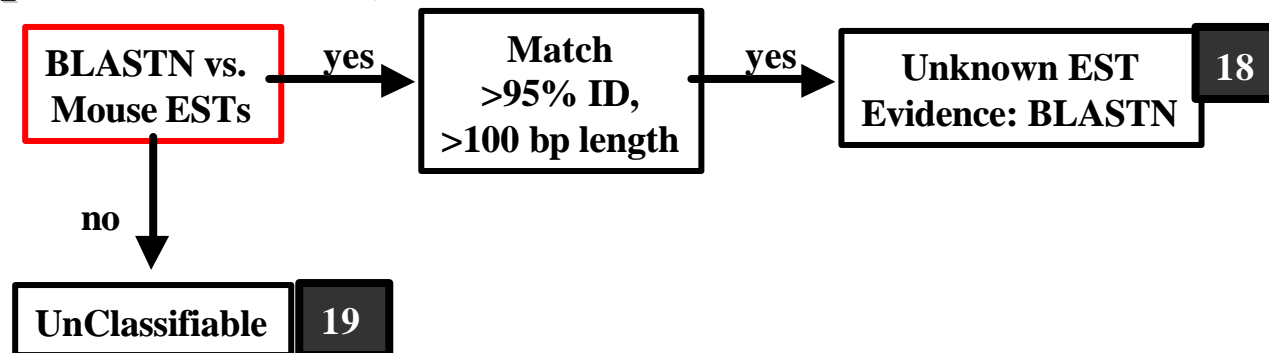


## Supplementary Information 6E

### Step 4: Inferred Homology-based Assignments



### Step 5: EST Search



Supplementary Information 6F  
Gene Name Nomenclature

- 1. Gene Name: retrieve MGI gene name / gene symbol**  
DB Ref: DB|Accession  
GO Assignment: (retrieve from top protein hit SP/InterPro and MGI excluding J:60000)
- 2. Gene Name: Do text query using Locus Link and transfer name/Gene Symbol**  
Qualifier: complete  
Evidence: BLASTN, %ID, match length  
DB Ref: DB|Accession  
GO Assignment: (retrieve from top protein hit SP/InterPro and MGI excluding J:60000)
- 3. Gene Name: Do text query using Locus Link and transfer name/Gene Symbol**  
Qualifier: partial/splice variant/unspliced/problem  
Evidence: BLASTN, %ID, match length  
DB Ref: DB|Accession  
GO Assignment: (retrieve from top protein hit SP/InterPro and MGI excluding J:60000)
- 4. Gene Name: <Assign protein name from def line of hit>**  
Qualifier: complete  
Evidence: FASTY, %ID, %length, match length  
DB Ref: DB|Accession  
GO Assignment: retrieve from SP/Interpro
- 5. Gene Name: <Assign protein name from def line of hit>, homolog [species]**  
Qualifier: complete  
Evidence: FASTY, %ID, %length, match length  
DB Ref: DB|Accession  
GO Assignment: retrieve from SP/Interpro
- 6. Gene Name: <Assign protein name from def line of hit>, homolog [species]**  
Qualifier: partial/splice variant/unspliced/problem (need radio buttons on page)  
Evidence: FASTY, %ID, %length, match length  
DB Ref: DB|Accession  
GO Assignment: retrieve from SP/Interpro
- 7. Gene Name: Assign “similar to” <Assign protein name from def line of hit>, [species]**  
Qualifier: complete  
Evidence: FASTY, %ID, %length, match length  
DB Ref: DB|Accession  
GO Assignment: retrieve from SP/Interpro
- 8. Gene Name: Assign “similar to” <Assign protein name from def line of hit>, [species]**  
Qualifier: partial/splice variant/unspliced/problem (need radio buttons on page)  
Evidence: FASTY, %ID, %length, match length  
DB Ref: DB|Accession  
GO Assignment: retrieve from SP/Interpro
- 9. Gene Name: Assign “weakly similar to” <Assign protein name from def line of hit>, [species]**  
Qualifier: complete  
Evidence: FASTY, %ID, %length, match length  
DB Ref: DB|Accession  
GO Assignment: retrieve from SP/Interpro

- 10. Gene Name: Assign “weakly similar to” <Assign protein name from def line of hit>, [species]**  
**Qualifier: partial/splice variant/unspliced/problem (need radio buttons on page)**  
**Evidence: FASTY, %ID, %length, match length**  
**DB Ref: DB|Accession**  
**GO Assignment: retrieve from SP/Interpro**
  
- 11. Gene Name: “inferred:”<cluster name>**  
**Qualifier:3’ UTR, 5’ UTR**  
**Evidence: UG/TGI**
  
- 12. Gene Name: “inferred:”<cluster name>**  
**Qualifier: 3’ UTR, 5’ UTR**  
**Evidence: UG**
  
- 13. Gene Name: “inferred:”<cluster name>**  
**Qualifier: 3’ UTR, 5’ UTR**  
**Evidence: TGI**
  
- 14. Gene Name: hypothetical <domain> containing protein**  
**Qualifier:**  
**Evidence: InterPro**  
**DB Ref: InterPro|Accession**  
**GO Assignment: retrieve from Interpro**
  
- 15. Gene Name: hypothetical <domain> containing protein**  
**Qualifier:**  
**Evidence: MDS**  
**DB Ref: MDS|Accession**
  
- 16. Gene Name: hypothetical <domain> structure containing protein**  
**Qualifier:**  
**Evidence: SCOP**  
**DB Ref: SCOP|Accession**  
**GO Assignment: retrieve from SCOP**
  
- 17. Gene Name: hypothetical protein**  
**Qualifier:**  
**Evidence: DECODER/ProCrest/rsCDS/NCBI CDS Predictor/Longest ORF/Truncated-Longest ORF**
  
- 18. Gene Name: unknown EST**  
**Qualifier:**  
**Evidence: BLASTN, %ID, match length**  
**DB Ref: DB|Accession**
  
- 19. Gene Name: unclassifiable**  
**Qualifier:**  
**Evidence:**  
**DB Ref:**