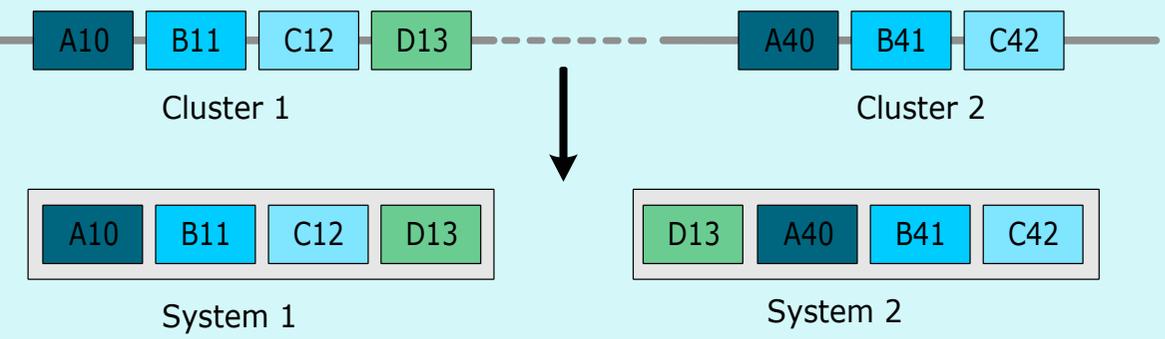


A

Hit for gene D "D13" belongs to a system that is tagged "multi_system"
It thus can be used with Cluster2 to fill up another system of "A" type.

Model A Definition

```
<model min_mandatory_genes_required="1"
  min_genes_required="4">
  <gene name="A" presence="mandatory"/>
  <gene name="B" presence="accessory"/>
  <gene name="C" presence="accessory"/>
  <gene name="D" presence="accessory"
    multi_system="1"/>
</model>
```

B

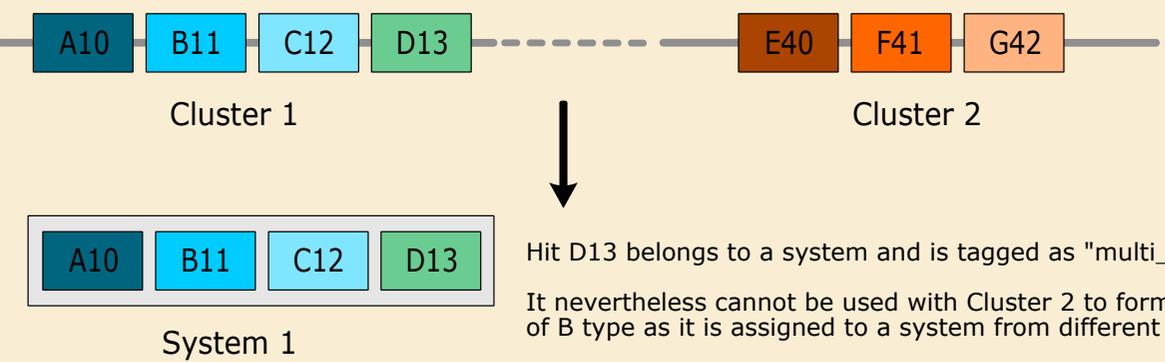
No System

Cluster 1 and 2 do not fulfill the quorum for model A.
They do not encode a system.

Hit D13 is part of a cluster but NOT a system, thus it
cannot be used to fulfill with the Cluster 3 the quorum
for a system.

Model B Definition

```
<model min_mandatory_genes_required="1"
  min_genes_required="4">
  <gene name="E" presence="mandatory"/>
  <gene name="F" presence="accessory"/>
  <gene name="G" presence="accessory"/>
  <gene name="D" presence="accessory"
    multi_system="1"/>
</model>
```

C

Hit D13 belongs to a system and is tagged as "multi_system".
It nevertheless cannot be used with Cluster 2 to form a system
of B type as it is assigned to a system from different model.