Species A

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Species B

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Sub-set of B

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Species A

---

Sub-set of A

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1. TBlastX(1) Species A → Species B

2. TBlastX(2) Sub-set of B → Species A

3. AX = A1 or AX similar to A1?

   Yes

   AX = A1 or AX similar to A1?

   No

   - Discard

   - Compare

   - BlastX Sub-set of Sub-set of A → Swissprot/TrEMBL → Species B best hit

B

- Duplication event

A and B: two different species
1 and 2: two different sequences
.....: the corresponding sequences are unknown

Best reciprocal blast hit