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# Example 1 pdb\_chain\_id = 372595 pdb\_chain\_dbref\_id = 5584953

### segres (the raf do has 0 mm)

vnwaavvddfygelfkahpeygnkfgfkgvalgslkgnaayktgagkvvdyinaaiggsadaaglasrhkgrnvgsaefhnakaclakacsahgapdlghaiddilshl

#### uniprot

mvnwaavvddfyqelfkahpeyqnkfgfkgvalgslkgnaayktqagktvdyinaaiggsadaaglasrhkgrnvgsaefhnakaclakacsahgapdlghaiddilsh

#### **Corresponding PDB submission**

DBREF 1V07 A 0 0 PDB 1V07 1V07 0 0

DBREF 1V07 A 1 109 UNP O76242 GLBN\_CERLA 1 109

SEQADV 1V07 VAL A 48 UNP O76242 THR 48 ENGINEERED MUTATION

- 1. V --> T is captured, but the sequence is still different
- 2. Don't know why the pdb\_chain\_dbref\_id is not present in the pdb\_chain\_diff table
- 3. The pdb\_align\_start and pdb\_align\_end for above case should be 0 108

# in the debug code, the SEQADV matches up its DBREF as the PDB one, as alignIDMap has key as struct\_ref id="1" for the PDB reference

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<PDBx:entity id>1</PDBx:entity id>

```
<PDBx:pdbx align begin xsi:nil="true" />
        <PDBx:pdbx seq one letter code xsi:nil="true" />
     </PDBx:struct ref>
  </PDBx:struct refCategory>
<PDBx:struct_ref_seq_difCategory>
     <PDBx:struct ref seq dif pdbx ordinal="1">
        <PDBx:align_id>1</PDBx:align id>
        <PDBx:db mon id>THR</PDBx:db mon id>
        <PDBx:details>ENGINEERED MUTATION
        <PDBx:mon_id>VAL</PDBx:mon_id>
        <PDBx:pdbx auth seq num>48</PDBx:pdbx auth seq num>
        <PDBx:pdbx pdb_id_code>1V07</PDBx:pdbx_pdb_id_code>
        <PDBx:pdbx pdb ins code xsi:nil="true" />
        <PDBx:pdbx pdb strand id>A</PDBx:pdbx pdb strand id>
        <PDBx:pdbx seq db accession code>076242</PDBx:pdbx seq db accession code>
        <PDBx:pdbx seq db name>UNP</PDBx:pdbx seq db name>
        <PDBx:pdbx seq db seq num>48</PDBx:pdbx seq db seq num>
        <PDBx:seq num>49</PDBx:seq num>
     </PDBx:struct_ref_seq_dif>
  </PDBx:struct ref seq difCategory>
seqadvs: [SEQADV: ENGINEERED MUTATION 48 v 0 0 DBRef: PDB 1V07 1V07 1 1 A 0 0]
```

The code did perform as expected to match the ref\_id = 1 of dbref and align\_id = 1 in diff

# Example 3 pdb\_chain\_id = 323001 pdb\_chain\_dbref\_id = 5565018

#### segres

glsaaqrqvvastwkdiagsdngagvgkecftkflsahhd**m**aavfgfsgasdpgvadlgakvlaqigvavshlgdegkmvaemkavgvrhkgygnkhikaeyfeplgasllsa mehriggkmnaaakdawaaayadisgalisglgs

### uniprot

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mglsaaqrqvvastwkdiagsdngagvgkecftkflsahhdiaavfgfsgasdpgvadlgakvlaqigvavshlgdegkmvaemkavgvrhkgygykhikaeyfeplgaslls amehriggkmtaaakdawaaayadisgalisglq

## **Corresponding PDB submission**

REMARK 800 SITE\_DESCRIPTION: BINDING SITE FOR RESIDUE HEM A 148
DBREF 1JL6 A 1 147 UNP P15447 GLB4\_GLYDI 1 147
SEQRES 1 A 147 GLY LEU SER ALA ALA GLN ARG GLN VAL VAL ALA SER THR

- 1. No SEQADV documenting the difference I --> M
- 2. pdb\_align\_start and pdb\_align\_end are indexed correctly

In [ ]:				
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