Initial literature search for enzymes able to reduce azo compounds

Is it a member of the FMN_red or Flavodoxin_2 Pfam families

Is it part of a recognised family

pBlast search of *P. aeruginosa* for homologues

Identify all characterised family members via literature search

Use 3D similarity search in the PDB to identify homologues of paAzoR1

Is it from *P. aeruginosa*

Perform literature search to check if the enzyme has been enzymatically characterised

Is it part of a recognised family

pBlast search of *P. aeruginosa* for homologues

Check if it has been enzymatically characterised

Discard

Yes

No

Discard

Yes

No