

```

SELECT ?protein ?ncbi_id ?gene ?fungi_db ?enzyme ?go_function
      ?cazy_uri ?enzyme_comment ?pubmed_id ?taxon_id ?taxon_name
      ?go_loc_id ?location ?seq_id ?aa_seq

FROM <http://localhost:8890/neoformans>

WHERE {
  #protein
  ?protein a up:Protein ;
    owl:sameAs ?ncbi_id ;
    up:encodedBy ?gene ;
    up:enzyme ?enzyme ;
    up:sequence ?seq_id .
  OPTIONAL { ?protein up:citation/dc_term:identifier ?pubmed_id .}
  ?protein glyrdf:is_from_source ?taxon_id.
  ?taxon_id up:scientificName ?taxon_name.
  #enzyme
  ?enzyme a up:Enzyme .
  OPTIONAL { ?enzyme obo:R0_0000085 ?go_function;
    ssci:SIO_001167 ?enzyme_comment.
    ?go_function obo:BF0_000054 ?glycan.}
  OPTIONAL { ?glycan obo:R0_0001025 ?go_loc_id.
    ?go_loc_id rdfs:label ?location }
  ?enzyme rdfs:seeAlso ?cazy_uri.
  #sequence
  ?seq_id a up:Sequence;
    rdf:value ?aa_seq .
  #gene
  ?gene a up:Gene ;
    owl:sameAs ?fungi_db .
}

```