Figure 1:
Figure 2:
Figure 3:
Figure 4:
Figure 5:
Figure 6:

**Cell adhesion (07155)**

- **a** Su et al (P20R = 1.5%) 61 Tissues
- **b** Pfam (P20R = 44%) 58 Protein Domains
- **c** OPHID (P20R = 10%) 99 Genes
- **d** OMIM (P20R = 2%) 4 Diseases
- **e** Phenotype (P20R = 4%) 28 Phenotypes

*Refinement/Re-prediction*
Figure 7:

Mitochondrial part (44429)

- Annotated gene/GO term associations
- Predicted gene/GO term associations

**a** Su et al (P2OR = 72.2%)
61 Tissues

**b** Pfam (P2OR = 26%)
47 Protein Domains

**c** OPHID (P2OR = 15.0%)
85 Genes

**d** OMIM (P2OR < 1%)
4 Diseases

**e** Phenotype (P2OR < 1%)
25 Phenotypes

- *Reinforcement/Re-prediction:
- A Perilipin 4
- b UCP4
- C UCP2
- D UCP1
Figure S-1:
Figure S-2:
Figure S-3:

Figure S-4:
Figure S-5:
Figure S-6: