

**Supplementary Table 15.** Molecular function results for protein-protein interaction module 1

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Molecular function	p-value	Genes
Polyubiquitin binding	4.43E-07	<i>ZRANB1, TOM1, UBQLN1, RAD23A</i>
Ubiquitin binding	8.79E-04	<i>TOM1, RAD23A, VPS36</i>
Thiol-dependent ubiquitin-specific protease activity	0.001373767	<i>USP7, ZRANB1, STAMBPL1</i>
Ubiquitinyl hydrolase activity	0.005224814	<i>USP7, ZRANB1</i>
Protein C-terminus binding	4.43E-07	<i>ZRANB1, TOM1, UBQLN1, RAD23A</i>

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