

relationship	Annotation type	Example gene	Example term	Annotation extension type	Example extension	Restrictions? Comments
Localization dependent_on	CC	?	nuclear chromatin	Gene product	(PomBase:SPAC14C4.13)	
Localization dependent_on	CC	Sim3	condensed nuclear chromosome, pericentric region	Complex	(Mis6-Sim4 complex)	
Localization dependent_on “	CC	Pmo25 Pxl1 Stc1	Spindle pole body Contractile ring Nuclear centromeric heterochromatin	Process	Septation initiation signaling Filamentous actin Chromatin silencing by small RNA	
Localization independent of	CC CC	Pxl1 Pal1	Contractile ring Medial ring	Process	Septation initiation signaling Microtubule cytoskeleton	
Localization dependent on	CC	Alp7	Spindle pole body	Domain	Polo box (PF00069)	

activity dependent_on	MF	?		Domain	?	
Process dependent_on	BP	?	?	Domain	?	
Activity_dependent_on	MF	Sid2	Protein serine/threonine kinase activity	Gene product	Mob1	Note this is = to some uses of contributes_to
Target_is	MF	Cdc2 Ace2 ???	Protein kinase activity sequence-specific DNA binding RNA polymerase II transcription factor activity mRNA binding protein	Gene Product Gene mRNA	PomBase: SPBC15D4.01c PomBase:SPAPJ760.03c ????	
Target_is	BP	Wdr48	positive regulation of ubiquitin-specific protease activity	Gene product	PomBase:SPBC1703.12	

Localization_target_is (child of target_is)	BP	Erg2	Establishment of protein localization in membrane raft	Gene Product	PomBase:SPAC1071.10c PomBase:SPBC359.03	Can apply to any Process term below Cellular protein localization
during	MF			Process	(life cycle term) (condition)	
during	CC			Process	(condition)	
during	CC	?	Plasma membrane	Process	Response to arsenic containing substance	
during	BP			Process	(life cycle term) (condition)	
Involved_in	BP		Positive regulation of proteasomal ubiquitin catabolic process	Process	Response to hypoxia (I did this one post composed because of the nature of the response to terms)	
Located at	BP	??	Endoplasmic reticulum tubular network organization	Component	Cell tip	Useful when the process can occur at multiple localizations
Located at	CC					Used when a process can occur at

						multiple locations
Occurs_in	MF	???	Recombinase activity Transcription regulator activity	CC (location)	Mitochondrion nucleus	This is the same gene, different functions in different locations
Occurs_in	BP			CC(location)		

Notes

Need to document what the reciprocal annotations are (if they exist)

Remember I have target is with qualifiers which need sucking in

We probably won't want to display these in gene pages as individual GO annotations....hmm

Also have

During mitosis (82)

During interphase (46)

During anaphase (15)

During S phase (9)

During metaphase (9)

During cytokinesis (8)
During anaphase_B (7)
During G1 phase (5)
During G2 phase (3)
During prophase (6)
During meiosis (27)
During meiosis I (5)
During meiotic prophase I(3)
During sporulation(7)

During stress?