

Supplemental Table S1: Consensus Evaluation of Rubisco Subunit Nomenclature

		Rubisco Structure PDB ID																						Consensus			
		Pea	1AA1	1AUS	1BWW	1EJ7	1GK8	1IR1	1IR2	1IWA	1RBL	1RBO	1RCO	1RCX	1RLC	1RLD	1RSC	1RXO	1UPM	1UPP	1WDD	3AXK	3AXM		3RUB	4RUB	8RUC
Subunits	Primary L	A	L	L	A	L	A	A	A	A	A	L	L	L	L	A	A	L	L	A	A	A	A	L	A	A	A(15), L(9)
	L	B	B	M	G		C	B	B	K	C	B	B	R			C	B	R	C			C			C	B(7),C(6)
	L	C	E	N	E		E	C	C	M	E	E	E	K			E	E	K	E			E			E	C(3),E(11)
	L	D	H	O	C		G	D	D	O	G	H	H	E			G	H	E	G			G		B	G	D(3),G(6)
	Primary S	S	S	S	S	S	I	S	I	P	M	S	S	S	S	S	M	S	S	I	S	S	S	S	S	I	S(18)
	S	T	C	T	Y		K	T	J	L	N	C	C	T			N	C	T	J			U			J	T(4), C(4), J(3)
	S	U	F	U	W		M	U	K	J	O	F	F	M			O	F	M	K			W			K	U(3)
References	This Publication	(Taylor & Andersson, 1997a)	(Taylor & Andersson, 1997a)	(Sugawara et al., 1999)	(Duff et al., 2000)	(Taylor et al., 2001)	(Shibata et al., 1996)	(Mizohata et al., 2002)	(Okano et al., 2002)	(Newman et al., 1993)	(Taylor et al., 1996)	(Taylor et al., 1996)	(Taylor & Andersson, 1997b)	(Zhang et al., 1994)	(Zhang et al., 1994)	(Newman & Gutteridge, 1994)	(Taylor & Andersson, 1997b)	(Karkehabadi et al., 2003)	(Karkehabadi et al., 2003)	(Matsumura et al., 2012)	(Matsumura et al., 2012)	(Matsumura et al., 2012)	(Curmi et al., 1992)	(Suh et al., 1987)	(Andersson, 1996)	V(3), I(4)	

Table S1 References

Andersson, I. (1996). *J Mol Biol* 259, 160-174.

Curmi, P. M., Cascio, D., Sweet, R. M., Eisenberg, D. & Schreuder, H. (1992). *J Biol Chem* 267, 16980-16989.

Duff, A. P., Andrews, T. J. & Curmi, P. M. (2000). *J Mol Biol* 298, 903-916.

Karkehabadi, S., Taylor, T. C. & Andersson, I. (2003). *J Mol Biol* 334, 65-73.

Matsumura, H., Mizohata, E., Ishida, H., Kogami, A., Ueno, T., Makino, A., Inoue, T., Yokota, A., Mae, T. & Kai, Y. (2012). *J Mol Biol* 422, 75-86.

Mizohata, E., Matsumura, H., Okano, Y., Kumei, M., Takuma, H., Onodera, J., Kato, K., Shibata, N., Inoue, T., Yokota, A. & Kai, Y. (2002). *J Mol Biol* 316, 679-691.

Newman, J., Branden, C. I. & Jones, T. A. (1993). *Acta Crystallogr D Biol Crystallogr* 49, 548-560.

Newman, J. & Gutteridge, S. (1994). *Structure* 2, 495-502.

Okano, Y., Mizohata, E., Xie, Y., Matsumura, H., Sugawara, H., Inoue, T., Yokota, A. & Kai, Y. (2002). *FEBS Lett* 527, 33-36.

Shibata, N., Inoue, T., Fukuhara, K., Nagara, Y., Kitagawa, R., Harada, S., Kasai, N., Uemura, K., Kato, K., Yokota, A. & Kai, Y. (1996). *J Biol Chem* 271, 26449-26452.

Sugawara, H., Yamamoto, H., Shibata, N., Inoue, T., Okada, S., Miyake, C., Yokota, A. & Kai, Y. (1999). *J Biol Chem* 274, 15655-15661.

Suh, S. W., Cascio, D., Chapman, M. S. & Eisenberg, D. (1987). *J Mol Biol* 197, 363-365.

Taylor, T. C. & Andersson, I. (1997a). *Biochemistry* 36, 4041-4046.

Taylor, T. C. & Andersson, I. (1997b). *J Mol Biol* 265, 432-444.

Taylor, T. C., Backlund, A., Bjorhall, K., Spreitzer, R. J. & Andersson, I. (2001). *J Biol Chem* 276, 48159-48164.

Taylor, T. C., Fothergill, M. D. & Andersson, I. (1996). *J Biol Chem* 271, 32894-32899.

Zhang, K. Y., Cascio, D. & Eisenberg, D. (1994). *Protein Sci* 3, 64-69.