Table 3. Determination of Cdc5-dependent phosphorylation sites onto GST-Swe1(K473A) *in vitro*

Peptide	Sequence	Amino acids
1	QAGEDE**S*** DDFAIGGSTPTNK	30–49
2	IEEEEEEEEEGKDEE**S*** VDSR	87–106
3	RW**S*** PFHENESVTTPITK	109–125
4	WSPFHENE**S*** VTTPITK	110–125
5	SAEK**T*** NSPISLK	127–138
6	TENT**S*** SSSSYSVAK	152–165
7	PNQ**S*** AFTSSGLVSK	166–179
8	M*S*MD*TS*LYPAK 1P	180–190
9	NA*SSS*L*S*V*S*PLNFVEDNNLQEDLLFSDSPSSK 2P (S)	219–250
10	NASSSL**S*** VSPLNFVEDNNLQEDLLFSDSPSSK	219–250
11	ALP**S*** IHVPTIDSSPLSEAK	251–269
12	HNNQ**T*** NILSPTNSLVTNSSPQTLHSNK	276–302
13	HNNQTNILSP*T*N*S*LVTNSSPQTLHSNK 1P (T or S)	276–302
14	RK**S*** IIGATSQTHR	377–389
15	ESRPL**S*** LSSAIVTNTTSAETHSISSTDSSPLNSK	390–423
16	LSANPD**S*** HLFEK	432–443
17	ILNEV*T*NQI*T*MDQEGK 1P (T)	492–507
18	LGDFGMATHLPLEDK**S*** FENEGDR	595–617
19	EYIAPEIISDC**T*** YDYK	618–633
20	LSSTDIHSESLFSDI**T*** KVDTNDLFDFER	673–700
21	LSSTDIH*S*E*S*LF*S*DI**T*** KVDTNDLFDFER 1P (S)	673–700

Phosphorylation sites were determined by nanoelectrospray tandem mass spectrometry. Definitive phosphosites are indicated by an asterisk. Underlined and italicized Ser or Thr indicates potential phosphosites. 1P or 2P indicates the number of phosphate groups in the given peptide, whereas S or T in parenthesis indicates the phosphorylated residues. A Swe1 derivative bearing mutations in the Cdc5 phosphorylation sites [Swe1(20A)] was generated by mutagenizing S36, S102, S111, S118, T131, S156, S169, S185, S223, S225, S254, T280, S288, S379, S395, S438, T501, S610, T629, S682, and T688 to Alanine (A). D. J. Lew and his colleagues (Duke University, Durham, NC) have determined three *in vivo* Swe1 phosphorylation sites, and these sites are identical to the phosphosites on peptides 3–5 (D. J. Lew, personal communication).