

Variable Name	Description
{ <i>\$alignment_fn</i> }	Alignment file listing a series of query/template alignments.
{ <i>\$frag3_fn</i> },{ <i>\$frag9_fn</i> }	Standard Rosetta fragment files.
{ <i>\$psipred_fn</i> }	PSIPRED SS2 formatted secondary structure prediction file.
{ <i>\$template_pdb_fn_str</i> }	List of template PDB files used for constructing partial models.
{ <i>\$cst_file</i> }	File containing Gaussian restraints for query sequence.

Supporting Table S2: Input variables for Rosetta rebuild and refine protocol. As described in *Methods* and *Results*, we tested the spatial restraints using four protocols that used the restraints. Command-line flags for each protocol are listed in **Supporting Text S1**.

Input files that are meant to be supplied by the user are denoted as {*\$variable_name*}. Examples of the file formats are available upon request and will be provided in the next release of Rosetta (v3.3).