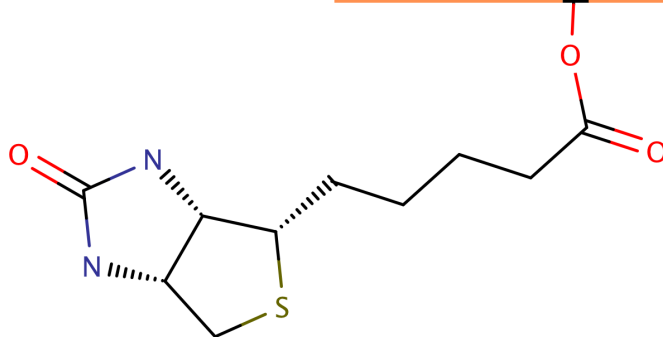


A

MGSSMKIEEGKLVIWINGDKGYNGLAEVGGKFEKDTGIKVTVEHPDKLEE
KFPQVAATGDGPDIIFWAHDRFGGYAQSGLLAEITPDKAFQDKLYPFTWD
AVRYNGKLIAYPIAVEALS LIYNKDLLPNPPKTWEEIPALDKELKAKGKS
ALMFNLQEPYFTWPLIAADGGYAFKYENGYDIKDVGVNAGAKAGLTFL
VDLIKNKHMNADTDYSIAEAAFNKGETAMTINGPWAWSNIDTSKVNYGVT
VLPTFKGQPSKPFVGVLSAGINAASPNKELAKEFLENYLLTDEGLEAVNK
DKPLGAVALKSYEEELAKDPRIAATMENAQKGEIMPNIPOMSAFWYAVRT
AVINAASGRQTVDEALKDAQTNSSSNNNNNNNNNNNLGIEENLYFQSDPP
LVANQVVTCPDKKSTAAVILTPTENHFTLKCPKTALTEPPTLAYSQNRQI
CPAGTTSSCTSKAVTLSSLIPEAEDSWWTGDSASLDTAGIKLTVPIEKFP
VTTQTFVVGCIKGDDAQSCMVTVTVQARASSVWNNVARCSYGADSTLGPV
KLSAEGPTTMTLVCGKDGKVPQDNNQYCSGTTLTGCNEKSFKDILPKLT
ENPWQGNASSDKGATLTIKKEAFPAESKSVIIGCTGGSPKHHCTVKLEF
AGAAGALSSTPPTPSTPPTGLNDIFEAKIEWHEHHHHH*



Maltose-binding protein (MBP) 45 kDa

tev site

mSAG1 27 kDa

AviTag & Biotin & 6His-Tag 4 kDa

B

MGGESLFKGRDYNPISSTICHLTNESDGHTTSLYGIGFGPFI
ITNKHLLFRNNGTLLVQSLHGVFKVKNNTTLLQQLIDGRDMIIRMPKDF
PPFPQKLKFRPQREERICLVTTNFQTKSMSSMVS DTSCTFPSSDGIFWK
HWIQTGDGQCGSPLVSTRDGFIVGIHSASNFTNTNNTNYFTSVPKNFMELLT
NQEAAQWVSGWRLNADSVLWGGHKVFMVKPEEPFQPVKEATQLMNRRRR
ENLYFQSDPPGYPDVPDYAMKDNTVPLKLIALLANGEFHSGEQLGETLGMSR
AAINKHIQTLRDWGVDFVTVPGKGYSLPEPIQLLNAEQILGQLDGGSVAV
LPVIDSTNQYLLDRIGELKSGDACVAEYQQAGRGRGRKWFSPFGANLYL
SMFWRLEQGPAAGLSLVIGIVMAEVLRLKLGADKVRVKWPNDLYLQDRK
LAGILVELTGKTGDAQIVIGAGINMAMRRVEESVNVQGWITLQEAGINL
DRNTLAAMLIRELRAALELFEQEGAPYLSRWEKLDNFINRPVKLIIGDK
EIFGISRGIDKQGALLLEQDGIKPMGGEISLRSAEK*

TEV protease 29 kDa

tev site HA tag

Biotin ligase (BirA) 37 kDa

Fig. S1