

Figure 1

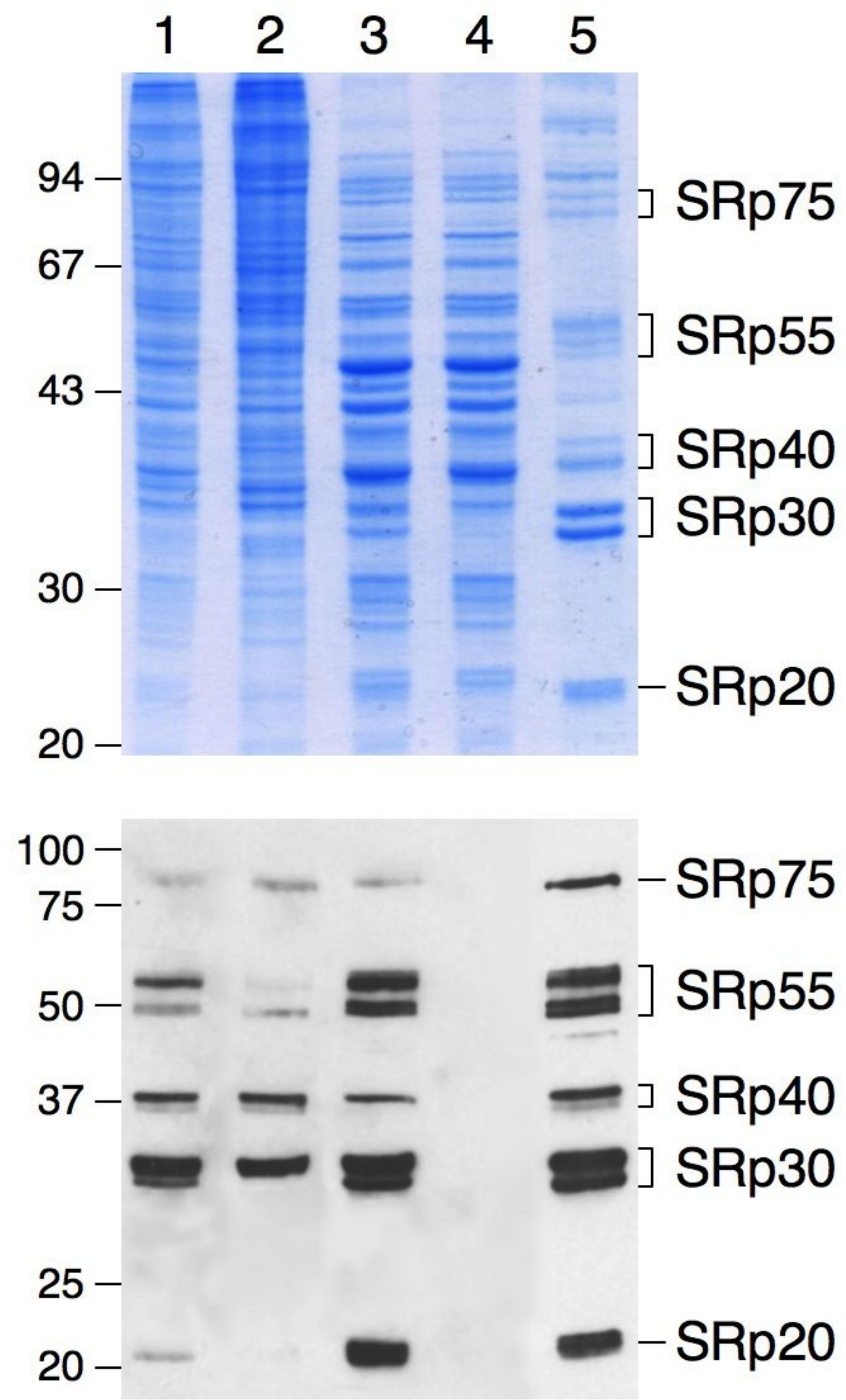
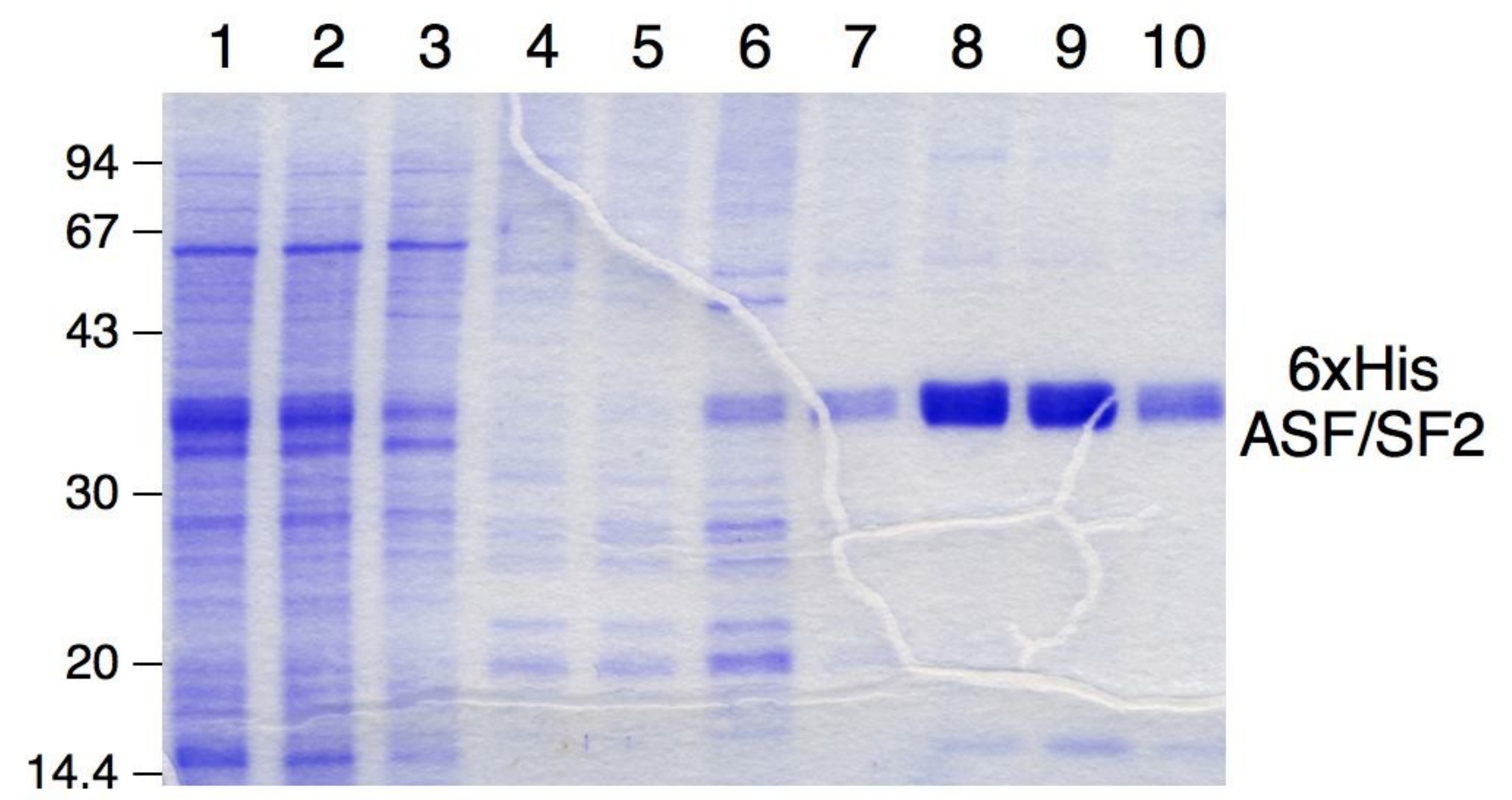


Figure 2



Summary: Expression and purification of splicing proteins

Overview:

Different strategies of expression and purification of splicing proteins

Prokaryotic system



Preparation of individual SR proteins

Outcome: protein without post-translational modification (phosphorylation), suitable for basic *in vitro* assays or for structural studies
possibility of *in vitro* phosphorylation

Questions answered:

function of a given protein in splicing?
which specific RNA sequences are recognized?

Eukaryotic system

Preparation of total SR proteins
(Protocol 1)

Preparation of individual SR proteins

Production in Baculovirus
(Protocol 2)

Production in mammalian cells

Outcome: post-translationally modified protein or population of proteins, suitable for complex *in vitro* assays (*in vitro* splicing assays)

Questions answered:

function of a given protein in splicing?
functional differences between splicing factors?
functions of splicing factors in other cellular processes?