ASF/SF2 (SFRS1 or SRp30a)\textsuperscript{His}

Splicing Factor, Arginine/Serine-rich 1, Pre-mRNA Splicing Factor
human, recombinant, E. coli

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Amount</th>
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<td>PR-774</td>
<td>10 µg</td>
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**Applications:**
Recombinant ASF/SF2 protein can be used 1) for in vitro function studies including pre-mRNA splicing, cross linking and other RNA binding assays, 2) for protein-protein interaction assay, and 3) for cell growth and proliferation assays.

**Description:**
The His-tag recombinant protein is purified by affinity chromatography in combination with FPLC columns. ASF or called SF2, a member of SR protein family, is an essential pre-mRNA splicing factor required for both single and alternative splicing. Phosphorylation on serine residues located within the SR domain directly regulates ASF/SF2 activity and compartmentalization of other SR splicing factors. In addition to interacting with RNA and other splicing factors, such as U1-70K, U2AF and other SR proteins, ASF/SF2 also directly or indirectly interacts with HIV regulatory protein Rev, the C-terminal domain (CTD) of the largest subunit of RNA polymerase II, and numerous transcription factors, thereby suggesting a potential role of ASF/SF2 in coordinating transcription and pre-mRNA splicing. The human ASF/SF2 wild type protein (residues 1-248) was expressed in E. coli and purified by an affinity column.

**Activity:**
1 ng is sufficient for a gel mobility shift assay in a 20 µl reaction, 100 ng are sufficient for protein-protein interaction assays.

**Selected References:**
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Tange et al. (1996) In vitro interaction between human immuno-
deficiency virus type 1 Rev protein and splicing factor ASF/SF2-

Yang et al. (2005) An erythroid differentiation-specific splicing switch in
protein 4.1R mediated by the interaction of SF2/ASF with an exonic
splicing enhancer. \textit{Blood}. \textbf{105}:2146.