

MRCPPU REAGENTS and SERVICES

Standard Operating Procedure

Preparation of SYT1 [270 – 422]

Enzyme description:- SYT1 [270 - 422]

Clone number:- DU 44151

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal GST

Purification method:- GSH Agarose

Calculated molecular mass:-

Monoisotopic 45, 175.31 daltons

Average Mass 45, 204.52 daltons

[cysteines reduced, methionines have not been oxidized]

Theoretical pI:- 7.11

Purity:- >80 %

Enzyme storage buffer:-

50 mM Tris-HCl pH 7.5, 0.1 mM EGTA, 150 mM NaCl, 0.1 % 2-mercaptoethanol,
270 mM Sucrose

Storage temperature:- -70 °C

MRCPPU REAGENTS and SERVICES

Clone Data Sheet

SYT1 [270 - 422]

<u>Protein</u>	SYT1 [270 – 422]
<u>Clone number</u>	DU 44151
<u>Species</u>	Human
<u>Accession number</u>	NM_001135805.1
<u>Tags</u>	N-terminal GST
<u>Bacterially expressed protein</u>	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELG LEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAIEISMLEGA VLDIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDH VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI PQIDKYLKSS KYIAWPLQGWQATFGGGDHPPKSDLEVLVLFQGPLGSENLYFQMEQEKLGD ICFSLRYVPTAGKLTVVILEAKNLKKMDVGGLSDPYVKIHLMQNGKRLK KKKTTIKKNTLNPYYNESFSFEVPFEQIQKVQVVVTVLDYDKIGKNDAI GKVFVGYNSTGAELRHWSMLANPRRPIAQWHTLQVEEEVDAMLAVKK
<u>Native sequence</u>	Amino acids E270 – K422 (end residue) of human SYT1. Residue E239 of the fusion protein is equivalent to E 270 of the native enzyme. The GST tag is located at residues 1 – 220.
<u>Protease cleavage</u>	TEV Protease (<u>ENLYFQM</u>) residues 232 - 238

MRCPPU REAGENTS and SERVICES