**Supplemetary material :**

Alignment of known sequences having similarity with *LlaDRT* protein sequences deduced using Clustal W software

AtPlastocyanin MASVTS-ATVAIPSFTGLKASTIKS---SATVRIQTAAVASPKLTVKSSL-KNFGVAAVA 55

AtDRT112 MASVTS-TTVPIPSFTGLKASTTKS---SATVRTQTAAVASPKLTVKSSL-KNFGVAAVA 55

AlDRT112 MASVTS-ATVAIPSFTGLKASTIKS---SATVRIQTAAVASPKLTVKSSL-KNFGVAAVA 55

LlaDRT MASVTS-AAVAIPSFTGLKAASIKS---SATVRIQTAAVASPKLTVKSSL-KDFGVVAVA 55

RcPlastocyanin MATVTS-AAVAIPSFTGLKAASAASTKVN--ASAKVAAPSLPRMSIKASM-KEVGVAVMA 56

PtPlastocyanin MATVTS-AAVSIPSFTGLKAGSASNAKVS--ASAKVSASPLPRLSIKASM-KDVGAAVVA 56

Stplastocyanin MATVTS-AAVAIPSFTGLKAGASSSSRVSTAASAKVAAAPAARLTVKASL-KDVGAVVAA 58

ScPlastocyanin MATVTS-AAVAIPSFTGLKAGASSSSRVSTAASAKVAAAPAARLTVKASL-KDVGAVVAA 58

NbPlastocyanin MATVTS-AAVAIPSFTGLKAGACSTSRVSTTAKV-AASTPATKLAVKASL-KDVGAVVVA 57

CsPlastocyanin MAAVTS-AAVAIPSFTGLKSTSSS----KPTSLIRLPSPASPKLCIKASL-KDVGVAVAA 54

PmPlastocyanine MATVTS-ASIKIQLSPLLKTTS------RLTTATFKP---TPKFAIKASL-KDFGVAVAA 49

PsPlastocyanin MATVTS-TTVAIPSFSGLKTNAAT--KVSAMAKIPTSTSQSPRLCVRASL-KDFGVALVA 56

MtPlastocyanin MATVTS-TTVAIPSFTGLKANAS---KVSAIAKVPTSNSQLPRLCVRASL-KDFGVAVVA 55

LjUnknown MATVTS-TAVAIPSFTGLKSAGS---KVSASAKVSSSPSQMPRLSVKASL-KDFGVAVVA 55

SlPlastocyanin MATVTSSAAVAIPSFAGLKASS------TTRAATVKVAVATPRMSIKASL-KDVGVVVAA 53

HvPlatocyanin MAALSS-AAVSVPSFA--------------AATPMRSSRSSR-MVVRASLGKKAASAAVA 44

OsPlastocyanin MAALSS-AAVTIPSMA--------------PSAPGRRRMSIS-LVVRASLGKAAGAAAVA 44

ZmPlastocyanin MASLSS-AAVTAPSFA--------------APAPARAVVRRRSFTVRASLRKATGTAAVA 45

\*\*:::\* ::: . : :::\*: \* . . \*

AtPlastocyanin AAASIALAGN-AMAIEVLLGGGDGSLAFIPNDFSIAKGEKIVFKNNAGYPHNVVFDEDEI 114

AtDRT112 PAASIALAGN-AMAIEVLLGGGDGSLAFIPNDFSIAKGEKIVFKNNAGYPHNVVFDEDEI 114

AlDRT112 AVASISLAGN-AMAIEVLLGGGDGALAFIPNDFSVAKGEKIVFKNNAGFPHNVVFDEDEI 114

LlaDRT AAASIALAGN-AMAMEVLLGSGDGALAFVPNDFTVAKGETKELKNNAGFPHNVVFDEDEI 114

RcPlastocyanin TAASAMLASN-AMAIEILLGSDDGGLAFVPNSFSVAPGEKIVFKNNAGFPHNIVFDEDEV 115

PtPlastocyanin TAASAMIASN-AMAIDVLLGADDGSLAFVPSEFSISPGEKIVFKNNAGFPHNIVFDEDSI 115

Stplastocyanin TAVSAMLASN-AMALDVLLGGDDGSLAFIPGNFSVSAGEKITFKNNAGSPHNVVFDEDEI 117

ScPlastocyanin TAVSAMLASN-AMALDVLLGGDDGSLAFIPGNFSVSAGEKITFKNNAGFPHNIVFDEDEI 117

NbPlastocyanin TAASAMLASN-AMAIEVLLGSDDGGLAFVPGNFSVSSGEKITFKNNAGFPHNVVFDEDEI 116

CsPlastocyanin TAASALLASN-AMAIEILLGGDDGSLAFVPNNFTVASGEKITFKNNAGFPHNVVFDEDEI 113

PmPlastocyanine TAASALIASN-AMAIDVLLGGDDGSLAFIPGNFEVAAGEKITFKNNAGFPHNVVFDEDEC 108

PsPlastocyanin TAASAVLASN-ALAVEVLLGASDGGLAFVPSSLEVSAGETIVFKNNAGFPHNVVFDEDEI 115

MtPlastocyanin TAASALLASN-ALAVEVLLGASDGGLAFVPNNFTVNAGDTITFKNNAGFPHNVIFDEDEI 114

LjUnknown TAASAVLASN-AMAIEILLGSDDGGLAFVPNSFSVAPGEKITFKNNAGFPHNVVFDEDEV 114

SlPlastocyanin TAAAGILAGN-AMAAEVLLGSSDGGLAFVPSDLSIASGEKITFKNNAGFPHNVVFDEDEV 112

HvPlatocyanin MAAGAMLLGGSAMAQDVLLGANGGVLVFEPNDFSVKAGETITFKNNAGYPHNVVFDEDAV 104

OsPlastocyanin VAASAMLAGG-AMAQEVLLGANGGVLVFEPNDFTVKSGETITFKNNAGFPHNVVFDKDAV 103

ZmPlastocyanin MAASALLAGG-AMAQEVLLGAGDGGLVFEPSQFTVKAGDTITFKNNAGFPHNVVFDEDEV 104

... : .. \*:\* ::\*\*\*...\* \*.\* \*..: : \*:. :\*\*\*\*\* \*\*\*::\*\*:\*

AtPlastocyanin PSGVDVAKISMDEQDLLNGAGETYEVALTEPGTYSFYCAPHQGAGMVGK-VTVN 167

AtDRT112 PSGVDVAKISMDEQDLLNGAGETYEVALTEPGTYSFYCAPHQGAGMVGK-VTVN 167

AlDRT112 PSGVDVAKISMDEQDLLNAAGETYEVALTEPGTYSFYCAPHQGAGMVGK-VTVN 167

LlaDRT PSGVDASKISMDEQDTRNDPGEKYEVALTEPGTYSFYCAPHQGAGMVGK-VTVN 167

RcPlastocyanin PSGVDAGKISMSEEDLLNGPGETYAVTLTEKGTYSFYCAPHQGAGMVGK-VTVN 168

PtPlastocyanin PSGVDASKISMSEEDLLNAKGETFEVALSNKGEYSFYCSPHQGAGMVGK-VTVN 168

Stplastocyanin PAGVDASKISMAEEDLLNAAGETYSVTLSEKGTYTFYCAPHQGAGMVGK-VTVN 170

ScPlastocyanin PAGVDASKISMAEEDLLNAPGETYSVTLSEKGTYTFYCAPHQGAGWLAKLLTVN 171

NbPlastocyanin PAGVDVSKISMPEEEYLNGPGETYSVTLNEKGTYSFYCAPHQGAGMVGK-VTVN 169

CsPlastocyanin PSGVDVGKISMDEENLLNAPGEVYEVQLTEKGSYSFYCSPHQGAGMVGK-VTVN 166

PmPlastocyanine PSGVNTGAISMSEEDYLNAKDEVYSVTLTEKGTYTFYCAPHQGAGMVGK-VTV- 160

PsPlastocyanin PAGVDASKISMPEEDLLNAPGETYSVKLDAKGTYKFYCSPHQGAGMVGQ-VTVN 168

MtPlastocyanin PSGVDAAKISMPEEDLLNAPGETYSVTLDAKGTYKFYCSPHAGAGMVGQ-VTVN 167

LjUnknown PGGVDASKISMSDEDLLNAPGETYSVTLDAKGTYKFYCSPHQGAGMVGS-VTVN 167

SlPlastocyanin PAGVDVTKISMPEEDLLNAPGEEYSVTLTEKGTYKFYCAPHAGAGMVGK-VTVN 165

HvPlatocyanin PSGVDVSKISQ--EEYLNAPGETFSVTLTVPGTYGFYCEPHAGAGMVGK-VTVN 155

OsPlastocyanin PSGVNLSKISQ--EEYLNAPGETFSVTLTVPGTYGFYCEPHAGAGMVGK-VTVN 154

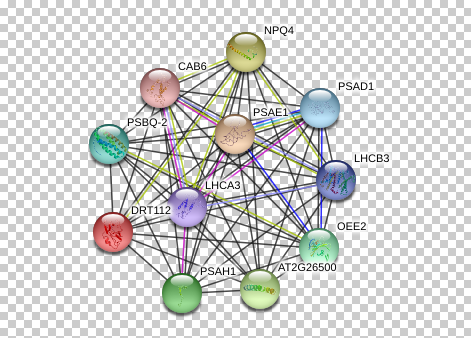
ZmPlastocyanin PSGVDATKISQ--EEYLNAPGETYSVTLTVPGTYGFYCEPHQGAGMVGK-ITVN 155

\*.\*\*: \*\* :: \* .\* : \* \* \* \* \*\*\* \*\* \*\*\* :.. :\*\*

Figure: Showing motif identification by MAST



Figure :Predicted functinal partners of DRT (PETE2) gene



Source: <http://string90.embl.de/newstring_cgi/show_network_section.pl?identifier=3702.AT1G20340.1-P&all_channels_on=1>