

„
Protein 1

,
**Fragile X Mental Retardation
Drosophila melanogaster”**

4.3. (”)

1.

„ . ” 38-561/30.10.2014 .

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(” ”)

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IJ BioAutomation,

„Splicing regulatory elements and mRNA-abundance of *dlg1* and *capt*, genetically interacting with dFMRP in *Drosophila* brain” M. Petrova, E. Molle, M. Nedelcheva-Veleva and G. Genova,

2.

2010 „. 2009 . 2013 .

” . , -

3.

- e ,

1 4 000 1 8 000 .

fmr1,

- FMRP (Fragile X mental retardation protein). FMRP

FMRP,

dFMRP

Drosophila melanogaster.

80%

3.

12 10 418 133 28 35%

10

35

3

Drosophila

melanogaster,

FMRP.

dFMRP

Drosophila.

FMRP

dFMRP (Drosophila Fragile X Mental Retardation Protein)

6

17

dfmr1,

PCR

Western blot
G-

8 49 20

dFMRP

dfmr1,

20

GAL4/UAS-
dfmr1

Drosophila melanogaster. GAL4

8 20

dfmr1,

scribbled. Actin-related protein 66B, flightless

2 (ciboulot scribbled)

12

dfmr1 *Drosophila*

dfmr1 20

dfmr1.

dfmr1
Drosophila.

- discs large 1 (*dlg1*) scribbled (*scrib*),

dfmr1 GFP pdf-

LNv-
dfmr1.

dlg1,

sLNv-

dfmr1

dFMRP

dFMRP : *flightless*,
capulet, *stardust*, *discs large 1*. G-

dFMRP PCR
dfmr1.

(*enabled*, *capulet*, *ciboulot*, *capping protein alpha*,
flightless, *zipper* *spaghetti squash*)
(*stardust*, *bazooka* *discs large 1*).

G-
dfmr1

dfmr1

zipper

dFMRP.

dfmr1.

dFMRP

dFMRP

G-

dlg1,

Western

blot,

dlg1

dFMRP

dFMRP

dfmr1,

dfmr1

HDAC4

HDAC6.

dFMRP

dFMRP

capulet *discs large 1*,

G-

Drosophila

G-

ESE (Exonic Splicing Enhancer)

12 *dlg1* (G-

)

ESE-) 3' 2 . 3 capt (G-

dFMRP (capt 8-4) . capulet

dFMRP capt 8-4 . capt 8-4

dFMRP . , capulet, discs large 1
dlg1

ESE- dlg1, dlg 10-13, 3' dFMRP G-

dFMRP. , dfmr1, ,
G- ESE- ,

dFMRP - dfmr1 ,

discs large 1. , capulet
37
12 , 7 ESE
, 3 ESS 2 ISE . -

30 , /

dfmr1 -

dFMRP -

4.

1

3

1

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2

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5.

4.3.

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05.12.2014 .

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