

100

	ZIT HOMOSON	
Dper	MNSYFEQASGFYGHPHQATGMAMGSGGHHDQTASAAAAAYRGFPLSLGMS	50
Dpse	MNSYFEQASGFYGHPHQATGMAMGSGGHHDQTASAAAAAYRGFPLSLGMS	50
DmelC	MNSYFEQASGFYGHPHQATGMAMGSGGHHDQTASAAAAAYRGFPLSLGMS	50
DmelF	MNSYFEQASGFYGHPHQATGMAMGSGGHHDQTASAAAAAYRGFPLSLGMS	50
DmelA	MNSYFEQASGFYGHPHQATGMAMGSGGHHDQTASAAAAAYRGFPLSLGMS	50
DmelB	MNSYFEQASGFYGHPHQATGMAMGSGGHHDQTASAAAAAYRGFPLSLGMS	50
DmeID	MNSYFEQASGFYGHPHQATGMAMGSGGHHDQTASAAAAAYRGFPLSLGMS	50
DmelE	MNSYFEQASGFYGHPHQATGMAMGSGGHHDQTASAAAAAYRGFPLSLGMS	50
Dere	MNSYFEQASGFYGHPHQATGMAMGSGGHHDQTASAAAAAYRGFPLSLGMS	50
Dyak	MNSYFEQASGFYGHPHQATGMAMGSGGHHDQTASAAAAAYRGFPLSLGMS	50
Dana	MNSYFEQASGFYGHPHQATGMAMGSGGHHDQSASAAAAAYRGFPLSLGMS	50
Dsim	MNSYFEQASGFYGHPHQATGMAMGSGGHHDQTASAAAAAYRGFPLSLGMS	50
Dper	PYANHHL QRTTQDSPYDASI TAACNKI YGDGASAYKQDCL NI KADAVNGY	100
Dpse	PYANHHL QRTTQDSPYDASI TAACNKI YGDGASAYKQDCL NI KADAVNGY	100
DmelC	PYANHHL QRTTQDSPYDASI TAACNKI YGDGAGAYKQDCL NI KADAVNGY	100
DmelF	PYANHHL QRTTQDSPYDASI TAACNKI YGDGAGAYKQDCL NI KADAVNGY	100
DmelA	PYANHHL QRTTQDSPYDASI TAACNKI YGDGAGAYKQDCL NI KADAVNGY	100
DmelB	PYANHHL QRTTQDSPYDASI TAACNKI YGDGAGAYKQDCL NI KADAVNGY	100
DmeID	PYANHHL QRTTQDSPYDASI TAACNKI YGDGAGAYKQDCL NI KADAVNGY	100
DmelE	PYANHHL QRTTQDSPYDASI TAACNKI YGDGAGAYKQDCL NI KADAVNGY	100
Dere	PYANHHL QRTTQDSPYDASI TAACNKI YGDGAGAYKQDCL NI KADAVNGY	100
Dyak	PYANHHL QRTTQDSPYDASI TAACNKI YGDGAGAYKQDCL NI KADAVNGY	100
Dana	PYANHHL QRTTQDSPYDASI TAACNKI YGDGAGFYKQDCLNI KADTVNGY	99
Deline	DVANUE OF TOPODY PAGE TAXONIC VODOL NEW ADAMS OF	400

PYANHHL QRTTQDSPYDASI TAACNKI YGDGAGAYKQDCL NI KADAVNGY

Dsim



198

190

Dper	KDI WNT GGS NGGGT GGGGGGGGGGGGGGAGGNASNGS NAGNAANG QNNAAGG	148
Dpse	KDI WNTGGSNGGGTGGGGGGGGAGGNASNGSNAGNAANGQNNAAGG	146
DmelC	KDI WNT GGS NGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	150
DmelF	KDI WNT GGS NGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	150
DmelA	KDI WNT GGS NGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	150
DmelB	KDI WNT GGS NGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	150
DmelD	KDI WNT GGS NGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	150
DmelE	KDI WNT GGS NGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	150
Dere	KDI WNT GGS NGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	150
Dyak	KDI WNT GGS NGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	150
Dana	KDI WNT GGS NGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	148
Dsim	KDIWNTGGSNGGGGGGGAVVAAERAEQVEPAMPMAVMRPMQT	142
_		
Dper	MPVRPSACTPDSRVGGYLDTSGGSPVSHRGGSAGGNVSAGGGQSGQSGA	198
Dpse	MPVRPSACTPDSRVGGYLDTSGGSPVSHRGGSAGGNVSAGGGGGGSGQSGA	196
DmelC	MPVRPSACTPDSRVGGYLDTSGGSPVSHRGGSAGGNVSVSGGNGNAG - G	198
DmelF	MPVRPSACTPDSRVGGYLDTSGGSPVSHRGGSAGGNVSVSGGNGNAG - G	198
DmelA	MPVRPSACTPDSRVGGYLDTSGGSPVSHRGGSAGGNVSVSGGNGNAG - G	198
DmelB	MPVRPSACTPDSRVGGYLDTSGGSPVSHRGGSAGGNVSVSGGNGNAG - G	198
DmelD	MPVRPSACTPDSRVGGYLDTSGGSPVSHRGGSAGGNVSVSGGNGNAG - G	198
DmelE	MPVRPSACTPDSRVGGYLDTSGGSPVSHRGGSAGGNVSVSGGNGNAG - G	198
Dere	MPVRPSACTPDSRVGGYLDTSGGSPVSHRGGSAGGNVSVSGGNGNAG - G	198
Dyak	MPVRPSACTPDSRVGGYLDTSGGSPVSHRGGSAGGNVSVSGGNGNAG-G	198
Dana		400

Dana

Dsim



241

Dper	PGVGVGVGVGAGAGTAWNANCTI SGAAAAQTAAASSL HQASNHTFYPW	248
Dpse	<u>PGV</u> GVGVGVGAGAGTAWNANCTI SG <u>A</u> AAAQTAAASSL HQASNHTFYPW	246
DmelC	VQSGVGVAGAGTAWNANCTIS-GAAAQTAAASSLHQASNHTFYPW	242
DmelF	VQSGVGVAG AGTAWNANCTI S- GAAAQTAAASSLHQASNHTFYPW	242
DmelA	VQSGVGVAGAGTAWNANCTIS-GAAAQTAAASSLHQASNHTFYPW	242
DmelB	VQSGVGVAG AGTAWNANCTI S- GAAAQTAAASSLHQASNHTFYPW	242
DmelD	VQSGVGVAGAGTAWNANCTIS-GAAAQTAAASSLHQASNHTFYPW	242
DmelE	VQSGVGVAG AGTAWNANCTI S- GAAAQTAAASSLHQASNHTFYPW	242
Dere	VQSGVGVAGAGTAWNANCTISGAAAAQTAAASSLHQASNHTFYPW	243
Dyak	VQSGVGVAGAGTAWNANCTISGAAAAQTAAASSLHQASNHTFYPW	243
Dana	VQSGVGVAGAGTAWNANCTISGAAAAQTAAASSLHQASNHTFYPW	243
Dsim	VQSGVGVAGAGTAWNANCTIS-GAAAQTAAASSLHQASNHTFYPW	234
Door	MALACKI DODI TOVOCI OTDMOKOVOTOLAC	200
Dper	MAIAGK RSDLTQYGGI STDMGKRYSESLAG SLLPDWLGTN	289
Dpse	MAI AGK RSDLTQYGGI STDMGKRYSESLAG SLLPDWLGTN	287
DmelC	MAI AGECPEDPTKSKRYSESLAG	275
DmelF	INT AGEOLEGICINO	258
DmelA	MAI AGECPEDPTKSKI RSDLTQYGGI STDMGKRYSESLAGSLLPDWLGTN	292
DmelB	MAIAGETN	249
DmelD	MAI AGKRYSESLAG	266
DmelE	MAIAGK RSDLTQYGGI STDMGKRYSESLAG SLLPDWLGTN	283
Dere	MAI AGK RSDLTQYGGI STDMGKRYSESLAG SLLPDWLGTN	284
Dyak	MAI AGK RSDLTQYGGI STDMGKRYSESLAG SLLPDWLGTN	284
Dana	MAI AGECPEDPAKSKI RSDLTQYGGI STDMGKRYSESLAGSLLPDWLGTN	293

Dsim

## ubx

2R homeobox

Dper Dpse DmelC DmelF DmelA DmelB DmelD DmelE Dere Dyak Dana Dsim	GLRRRGRQTYTRYQTLELEKEFHTNHYLTRRRRI EMAHALCLTERQI KI W	339 337 325 308 342 299 316 333 334 334 343 291
Dper Dpse	FQNRRMKLKKEI QAI KELNEQEKQAQAQKAAAAAAAAAAVQGGHLDQ FQNRRMKLKKEI QAI KELNEQEKQAQAQKAAAAAAAAAAVQGGHLDQ	386 384
DmelC	FQNRRMKLKKEI QAI KELNEQEKQAQAQKAAAAAAAAVQGGHLDQ	372
DmelF	FQNRRMKLKKEI QAI KELNEQEKQAQAQKAAAAAAAAAAVQGGHLDQ	355
DmelA	FQNRRMKLKKEI QAI KELNEQEKQAQAQKAAAAAAAAAAVQGGHLDQ	389
DmelB	FQNRRMKLKKEI QAI KELNEQEKQAQAQKAAAAAAAAAAVQGGHLDQ	346
DmeID	FQNRRMKLKKEI QAI KELNEQEKQAQAQKAAAAAAAAAAVQGGHLDQ	363
DmelE	FQNRRMKLKKEI QAI KELNEQEKQAQAQKAAAAAAAAAAVQGGHLDQ	380
Dere	FQNRRMKLKKEI QAI KELNEQEKQAQAQKAAAAAAAAAAVQGGHLDQ	381
Dyak	FQNRRMKLKKEI QAI KELNEQEKQAQAQKAAAAAAAAAAVQGGHLDQ	381
Dana	FQNRRMKLKKEI QAI KELNEQEKQAQAQKAAAAAAAAAAVQGGHLD-	389
Dsim	FQNRRMKLKKEI QAI KELNEQEKQAQAQKAAAAAAAAAAVQGGHLDQ	338