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Transcription Factors Encoded on Core and Accessory Chromosomes of *Fusarium oxysporum* Induce Expression of Effector Genes

van der Does, H.C.; Fokkens, L.; Yang, A.; Schmidt, S.M.; Langereis, L.; Lukasiewicz, J.M.; Hughes, T.R.; Rep, M.

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TF1: Zn2/Cys6 (Pfam: Zn_clus)

		C	Cr	kK	C	P	C	C	C																																																	
FOIG_16630T0	175	L	A	C	A	C	R	R	K	K	V	R	C	S	G	E	K	P	A	C	H	C	L	H	S	H	T	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	D	Y	M	A	M	L	D	K	R	P	K	C	M	E	E	R	I
FOWG_17325T0	175	L	A	C	A	C	R	R	K	K	V	R	C	S	G	E	K	P	A	C	H	C	L	H	S	H	T	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	N	Y	M	V	M	L	D	K	R	P	K	C	M	E	E	R	I
FOXG_14257T0	135	L	A	C	A	C	R	R	K	K	V	R	C	S	G	E	K	P	A	C	H	C	L	H	S	H	T	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	N	Y	M	V	M	L	D	K	R	P	K	C	M	E	E	R	I
FOXG_12539T0	135	L	A	C	A	C	R	R	K	K	S	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	N	C	M	A	M	L	D	K	R	P	K	R	M	E	E	R	V
FOXG_17084T0	135	L	A	C	A	C	R	R	K	K	S	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	N	C	M	A	M	L	D	K	R	P	K	R	M	E	E	R	V
FOXG_12589T0	135	L	A	C	A	C	R	R	K	K	S	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	N	C	M	A	M	L	D	K	R	P	K	R	M	E	E	R	V
FOXG_14000T0	135	L	A	C	A	C	R	R	K	K	S	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	N	C	M	A	M	L	D	K	R	P	K	R	M	E	E	R	V
FOWG_17908T0	135	L	A	C	A	C	R	R	K	K	S	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	N	C	M	A	M	L	D	K	R	P	K	R	M	E	E	R	V
FOWG_17814T0	135	L	A	C	A	C	R	R	K	K	S	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	D	Y	M	A	M	L	D	K	R	P	K	C	M	E	E	R	V
FOXG_17123T0	135	L	A	C	A	C	R	R	K	K	S	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	D	Y	M	A	M	L	D	K	R	P	K	C	M	E	E	R	V
FOMG_18999T0	135	L	A	C	A	C	R	R	K	K	T	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	N	Y	M	A	M	L	D	K	R	P	K	R	M	E	E	R	I
FOMG_18692T0	175	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	H	S	H	T	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	N	H	M	T	M	L	D	K	R	P	K	R	M	E	E	R	I
FOTG_17956T0	175	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	H	S	H	T	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	N	Y	M	T	M	L	D	K	R	P	K	R	M	E	E	R	I
FOWG_17740T0	135	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	D	Y	M	A	M	L	D	K	R	P	K	R	M	E	E	R	V	
FOXG_16414T0	135	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	D	Y	M	A	M	L	D	K	R	P	K	R	M	E	E	R	V	
FOXG_17458T0	175	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	N	C	M	A	M	L	D	K	R	P	K	R	M	E	E	R	A	
FOWG_18009T0	175	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	N	C	M	A	M	L	D	K	R	P	K	R	M	E	E	R	A	
FOTG_18080T0	175	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	N	C	M	A	M	L	D	K	R	P	K	R	M	E	E	R	-	
FOQG_19052T0	175	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	H	S	H	T	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	N	H	M	T	M	P	N	K	L	P	K	R	M	E	E	R	I
FOIG_16484T0	175	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	D	C	M	A	M	L	D	K	R	P	K	R	M	E	E	R	V
FOMG_18985T0	175	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	D	C	M	A	M	L	D	K	R	P	K	R	M	E	E	R	A
FOTG_17879T0	175	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	D	C	M	A	M	L	D	K	R	P	K	R	M	E	E	R	I
FOIG_16560T0	175	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	D	Y	M	A	M	L	D	K	R	P	K	R	M	E	E	R	V
FOZG_18011T0	135	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	H	S	H	T	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	G	Y	M	A	M	L	D	K	R	P	K	R	M	E	E	R	I
FOQG_15325T0	175	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	G	Y	M	A	M	L	D	K	R	P	K	R	M	E	E	R	I	
FOTG_16755T0	176	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	G	Y	M	A	M	L	D	K	R	P	K	R	M	E	E	R	I
FOXG_14422T0	176	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	G	Y	M	A	M	L	D	K	R	P	K	R	M	E	E	R	I
FOXG_15059T0	176	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	G	Y	M	A	M	L	D	K	R	P	K	R	M	E	E	R	I
Necha2_47027	174	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	D	Y	M	A	M	L	D	K	R	P	K	R	M	E	E	R	I
FGSG_05503T0	175	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	D	Y	M	A	M	L	D	K	R	P	K	R	M	E	E	R	I
FOTG_03936T0	179	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	D	Y	M	A	M	L	D	K	R	P	K	R	M	E	E	R	I
FVEG_07022T0	177	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	D	Y	M	A	M	L	D	K	R	P	K	R	M	E	E	R	I
FOPG_02091T0	177	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	D	Y	M	A	M	L	D	K	R	P	K	R	M	E	E	R	I
FOVG_10613T0	177	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	D	Y	M	A	M	L	D	K	R	P	K	R	M	E	E	R	I
FOWG_05099T0	177	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	D	Y	M	A	M	L	D	K	R	P	K	R	M	E	E	R	I
FOZG_12687T0	177	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	D	Y	M	A	M	L	D	K	R	P	K	R	M	E	E	R	I
FOCG_10914T0	177	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	D	Y	M	A	M	L	D	K	R	P	K	R	M	E	E	R	I
FOMG_08221T0	177	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R	T	D	Y	M	A	M	L	D	K	R	P	K	R	M	E	E	R	I
FOXG_09390T0	177	L	A	C	A	C	R	R	K	K	I	R	C	S	G	E	K	P	A	C	H	C	L	R	S	Y	I	P	C	V	Y	K	V	T	R	K	A	A	P	R																		

TF2: Forkhead domain (Pfam: Forkhead)

PK Y LI AI P T

FOXG_17260T0 123 NMK**TW**-Q**EP**PT**CE**PE**Y**C**ANS**R**V**K**SE**PL**EL**KS-T**AV**PK**AK**E**PY**AK**L**Y**R**AL**MS**A**PD**Q**AM**T
 FOWG_16911T0 123 NMK**TW**-Q**EP**PT**CE**PE**Y**C**ANS**R**V**K**SE**PL**EL**KS-T**AV**PK**AK**E**PY**AK**L**Y**R**AL**MS**A**PD**Q**AM**T
Necha2_75425 239 Y**MT**T**K**KE**S**PA**VE**PE**N**R**AS**PL**K**Q**PE**T**S**ES**Q**SS**S**AV**G**AK**P**E**Y**A**Q**L**Y**R**AL**M**G**A**FG**H**AM**T
FVEG_00384T0 233 LMK**AR**-H**ES**P**AG**V**PE**Y**R**AS**SE**V**VE**Q**E**G**K**D**L**Q**AA**A**AG**AK**T**D**E**P**Y**AK**L**L**Y**R**AL**M**S**V**P**D**H**AM**T**
 FOPG_04623T0 233 LMK**AR**-H**ES**P**AG**V**PE**Y**R**AN**SE**V**VE**Q**E**G**K**D**L**Q**AA**A**AG**AK**T**D**E**P**Y**AK**L**L**Y**R**AL**M**S**V**P**D**H**AM**T**
 FOXB_06599T0 233 LMK**AR**-H**ES**P**AG**V**PE**Y**R**AN**SE**V**VE**Q**E**G**K**D**L**Q**AA**A**AG**AK**T**D**E**P**Y**AK**L**L**Y**R**AL**M**S**V**P**D**H**AM**T**
 FOTG_04534T0 233 LMK**AR**-H**ES**P**AG**V**PE**Y**R**AN**SE**V**VE**Q**E**G**K**D**L**Q**AA**A**AG**AK**T**D**E**P**Y**AK**L**L**Y**R**AL**M**S**V**P**D**H**AM**T**
 FOQG_03457T0 234 LMK**AR**-H**ES**P**AG**V**PE**Y**R**AN**SE**V**VE**Q**E**G**K**D**L**Q**AA**A**AG**AK**T**D**E**P**Y**AK**L**L**Y**R**AL**M**S**V**P**D**H**AM**T**
 FOVG_00276T0 233 LMK**AR**-H**ES**P**AG**V**PE**Y**R**AN**SE**V**VE**Q**E**G**K**D**L**Q**AA**A**AG**AK**T**D**E**P**Y**AK**L**L**Y**R**AL**M**S**V**P**D**H**AM**T**
 FOIG_13226T0 233 LMK**AR**-H**ES**P**AG**V**PE**Y**R**AN**SE**V**VE**Q**E**G**K**D**L**Q**AA**A**AG**AK**T**D**E**P**Y**AK**L**L**Y**R**AL**M**S**V**P**D**H**AM**T**
 FOYG_06154T0 233 LMK**AR**-H**ES**P**AG**V**PE**Y**R**AN**SE**V**VE**Q**E**G**K**D**L**Q**AA**A**AG**AK**T**D**E**P**Y**AK**L**L**Y**R**AL**M**S**V**P**D**H**AM**T**
 FOCG_14298T0 233 LMK**AR**-H**ES**P**AG**V**PE**Y**R**AN**SE**V**VE**Q**E**G**K**D**L**Q**AA**A**AG**AK**T**D**E**P**Y**AK**L**L**Y**R**AL**M**S**V**P**D**H**AM**T**
 FOZG_01910T0 233 LMK**AR**-H**ES**P**AG**V**PE**Y**R**AN**SE**V**VE**Q**E**G**K**D**L**Q**AA**A**AG**AK**T**D**E**P**Y**AK**L**L**Y**R**AL**M**S**V**P**D**H**AM**T**
 FOWG_10385T0 233 LMK**AR**-H**ES**P**AG**V**PE**Y**R**AN**SE**V**VE**Q**E**G**K**D**L**Q**AA**A**AG**AK**T**D**E**P**Y**AK**L**L**Y**R**AL**M**S**V**P**D**H**AM**T**
FOXG_01132T0 233 LMK**AR**-H**ES**P**AG**V**PE**Y**R**AN**SE**V**VE**Q**E**G**K**D**L**Q**AA**A**AG**AK**T**D**E**P**Y**AK**L**L**Y**R**AL**M**S**V**P**D**H**AM**T**
 FOMG_01923T0 233 LMK**AR**-H**ES**P**AG**V**PE**Y**R**AN**SE**V**VE**Q**E**G**K**D**L**Q**AA**A**AG**AK**T**D**E**P**Y**AK**L**L**Y**R**AL**M**S**V**P**D**H**AM**T**

L WONSIRHNL N F K

FOXG_17260T0 181 L**HE**I**Y**Q**W**F**R**E**N**T**D**K**I**K**K**D**S**E**R**R**P**G**K**N**D**N**G**W**Q**N**S**I**R**H**N**L**S**M**N**A**F**V**K**R**E**Y**K**Q**L**S**D**P**AS**N
 FOWG_16911T0 181 L**HE**I**Y**Q**W**F**R**E**N**T**D**K**I**K**K**D**S**E**R**R**P**G**K**N**D**N**G**W**Q**N**S**I**R**H**N**L**S**M**N**A**F**V**K**R**E**Y**K**Q**L**S**D**P**AS**N
Necha2_75425 299 L**Q**E**I**Y**Q**W**F**R**E**N**T**D**K**I**S**K**N**E**N**L**G**K**K**S**G**K**N**A**E**G**W**Q**N**S**I**R**H**N**L**S**M**N**K**A**F**T**K**D**P**P**K**E**P**G**S**E**P**S
FVEG_00384T0 292 L**Q**E**I**Y**Q**W**F**R**E**N**T**D**K**D**I**K**K**D**K**S**E**K**R**P**G**K**N**A**E**G**W**Q**N**S**I**R**H**N**L**S**M**N**D**A**F**V**K**R**E**H**K**L**S**D**S**A**S**R
 FOPG_04623T0 292 L**Q**E**I**Y**Q**W**F**R**E**N**T**D**K**D**I**K**K**D**K**S**E**K**R**P**G**K**N**A**E**G**W**Q**N**S**I**R**H**N**L**S**M**N**D**A**F**V**K**R**E**H**K**L**S**D**S**A**S**R
 FOXB_06599T0 292 L**Q**E**I**Y**Q**W**F**R**E**N**T**D**K**D**I**K**K**D**K**S**E**K**R**P**G**K**N**A**E**G**W**Q**N**S**I**R**H**N**L**S**M**N**D**A**F**V**K**R**E**H**K**L**S**D**S**A**S**R
 FOTG_04534T0 292 L**Q**E**I**Y**Q**W**F**R**E**N**T**D**K**D**I**K**K**D**K**S**E**K**R**P**G**K**N**A**E**G**W**Q**N**S**I**R**H**N**L**S**M**N**D**A**F**V**K**R**E**H**K**L**S**D**S**A**S**R
 FOQG_03457T0 293 L**Q**E**I**Y**Q**W**F**R**E**N**T**D**K**D**I**K**K**D**K**S**E**K**R**P**G**K**N**A**E**G**W**Q**N**S**I**R**H**N**L**S**M**N**D**A**F**V**K**R**E**H**K**L**S**D**S**A**S**R
 FOVG_00276T0 292 L**Q**E**I**Y**Q**W**F**R**E**N**T**D**K**D**I**K**K**D**K**S**E**K**R**P**G**K**N**A**E**G**W**Q**N**S**I**R**H**N**L**S**M**N**D**A**F**V**K**R**E**H**K**L**S**D**S**A**S**R
 FOIG_13226T0 292 L**Q**E**I**Y**Q**W**F**R**E**N**T**D**K**D**I**K**K**D**K**S**E**K**R**P**G**K**N**A**E**G**W**Q**N**S**I**R**H**N**L**S**M**N**D**A**F**V**K**R**E**H**K**L**S**D**S**A**S**R
 FOYG_06154T0 292 L**Q**E**I**Y**Q**W**F**R**E**N**T**D**K**D**I**K**K**D**K**S**E**K**R**P**G**K**N**A**E**G**W**Q**N**S**I**R**H**N**L**S**M**N**D**A**F**V**K**R**E**H**K**L**S**D**S**A**S**R
 FOCG_14298T0 292 L**Q**E**I**Y**Q**W**F**R**E**N**T**D**K**D**I**K**K**D**K**S**E**K**R**P**G**K**N**A**E**G**W**Q**N**S**I**R**H**N**L**S**M**N**D**A**F**V**K**R**E**H**K**L**S**D**S**A**S**R
 FOZG_01910T0 292 L**Q**E**I**Y**Q**W**F**R**E**N**T**D**K**D**I**K**K**D**K**S**E**K**R**P**G**K**N**A**E**G**W**Q**N**S**I**R**H**N**L**S**M**N**D**A**F**V**K**R**E**H**K**L**S**D**S**A**S**R
 FOWG_10385T0 292 L**Q**E**I**Y**Q**W**F**R**E**N**T**D**K**D**I**K**K**D**K**S**E**K**R**P**G**K**N**A**E**G**W**Q**N**S**I**R**H**N**L**S**M**N**D**A**F**V**K**R**E**H**K**L**S**D**S**A**S**R
FOXG_01132T0 292 L**Q**E**I**Y**Q**W**F**R**E**N**T**D**K**D**I**K**K**D**K**S**E**K**R**P**G**K**N**A**E**G**W**Q**N**S**I**R**H**N**L**S**M**N**D**A**F**V**K**R**E**H**K**L**S**D**S**A**S**R
 FOMG_01923T0 292 L**Q**E**I**Y**Q**W**F**R**E**N**T**D**K**D**I**K**K**D**K**S**E**K**R**P**G**K**N**A**E**G**W**Q**N**S**I**R**H**N**L**S**M**N**D**A**F**V**K**R**E**H**K**L**S**D**S**A**S**R

FOXG_17260T0 241 G**G**--**D**H**G**S**T**K**D**D**E**S**K**K**P**T**K**W**T**L**E**S**W**A**V**Q**D**G**V**K**S**T**R**E**Y**R**H**N**K**Y**G**V**L**R-----
 FOWG_16911T0 241 G**G**--**D**H**G**S**T**K**D**D**E**S**K**K**P**T**K**W**T**L**E**S**W**A**V**Q**D**G**V**K**S**T**R**E**Y**R**H**N**K**Y**G**V**L**R-----
Necha2_75425 359 M**T**---**E**S**T**A**G**G**D**E**K**S**T**E**W**R**L**V**D**W**A**R**D**G**V**Q**S**T**T**Y**R**P**G**N**S**A**R**R**A**L**G**T**K**V**Q**H**H**P**Y**N**H**H**G**
FVEG_00384T0 352 A**T**E**Q**S**G**S**T**K**T**G**E**A**K**K**A**T**E**W**V**L**E**D**W**A**V**L**N**G**V**E**S**T**T**K**Y**R**G**K**N**T**S**R**R**G**M**G**R**K**Y**H**H**H**P**Y**D**Y--
 FOPG_04623T0 352 A**T**E**Q**S**G**S**T**K**T**G**E**A**K**K**A**T**E**W**V**L**E**D**W**A**V**L**N**G**V**E**S**T**T**K**Y**R**G**K**N**T**S**R**R**G**M**G**R**K**Y**H**H**H**P**Y**D**--
 FOXB_06599T0 352 A**T**E**Q**S**G**S**T**K**T**G**E**A**K**K**A**T**E**W**V**L**E**D**W**A**V**L**N**G**V**E**S**T**T**K**Y**R**G**K**N**T**S**R**R**G**M**G**R**K**Y**H**H**H**P**Y**D**--
 FOTG_04534T0 352 A**T**E**Q**S**G**S**T**K**T**G**E**A**K**K**A**T**E**W**V**L**E**D**W**A**V**L**N**G**V**E**S**T**T**K**Y**R**G**K**N**T**S**R**R**G**M**G**R**K**Y**H**H**H**P**Y**D**--
 FOQG_03457T0 353 A**T**E**Q**S**G**S**T**K**T**G**E**A**K**K**A**T**E**W**V**L**E**D**W**A**V**L**N**G**V**E**S**T**T**K**Y**R**G**K**N**T**S**R**R**G**M**G**R**K**Y**H**H**H**P**Y**D**--
 FOVG_00276T0 352 A**T**E**Q**S**G**S**T**K**T**G**E**A**K**K**A**T**E**W**V**L**E**D**W**A**V**L**N**G**V**E**S**T**T**K**Y**R**G**K**N**T**S**R**R**G**M**G**R**K**Y**H**H**H**P**Y**D**--
 FOIG_13226T0 352 A**T**E**Q**S**G**S**T**K**T**G**E**A**K**K**A**T**E**W**V**L**E**D**W**A**V**L**N**G**V**E**S**T**T**K**Y**R**G**K**N**T**S**R**R**G**M**G**R**K**Y**H**H**H**P**Y**D**--
 FOYG_06154T0 352 A**T**E**Q**S**G**S**T**K**T**G**E**A**K**K**A**T**E**W**V**L**E**D**W**A**V**L**N**G**V**E**S**T**T**K**Y**R**G**K**N**T**S**R**R**G**M**G**R**K**Y**H**H**H**P**Y**D**--
 FOCG_14298T0 352 A**T**E**Q**S**G**S**T**K**T**G**E**A**K**K**A**T**E**W**V**L**E**D**W**A**V**L**N**G**V**E**S**T**T**K**Y**R**G**K**N**T**S**R**R**G**M**G**R**K**Y**H**H**H**P**Y**D**--
 FOZG_01910T0 352 A**T**E**Q**S**G**S**T**K**T**G**E**A**K**K**A**T**E**W**V**L**E**D**W**A**V**L**N**G**V**E**S**T**T**K**Y**R**G**K**N**T**S**R**R**G**M**G**R**K**Y**H**H**H**P**Y**D**--
 FOWG_10385T0 352 A**T**E**Q**S**G**S**T**K**T**G**E**A**K**K**A**T**E**W**V**L**E**D**W**A**V**L**N**G**V**E**S**T**T**K**Y**R**G**K**N**T**S**R**R**G**M**G**R**K**Y**H**H**H**P**Y**D**--
FOXG_01132T0 352 A**T**E**Q**S**G**S**T**K**T**G**E**A**K**K**A**T**E**W**V**L**E**D**W**A**V**L**N**G**V**E**S**T**T**K**Y**R**G**K**N**T**S**R**R**G**M**G**R**K**Y**H**H**H**P**Y**D**--
 FOMG_01923T0 352 A**T**E**Q**S**G**S**T**K**T**G**E**A**K**K**A**T**E**W**V**L**E**D**W**A**V**L**N**G**V**E**S**T**T**K**Y**R**G**K**N**T**S**R**R**G**M**G**R**K**Y**H**H**H**P**Y**D**--

TF3: Cys2His2 domain (Pfam: zf-C2H2)

C C F L H H

FOXG_17266T0 181 Y**K**C**E**W**P**G**C**E**K**T**F**T**Q**K**K**S**L**R**V**H**A**K**T**C**R**F**Q**F**P**I**F**V**P**S**D**T**I**S**G**L**G**V**E**G**W**H**D**S**A**T**G**R**D**E**V**P**S**P**A**
 FOWG_16923T0 95 Y**K**C**E**W**P**G**C**E**K**T**F**T**Q**K**K**S**L**R**V**H**A**K**T**C**R**F**Q**F**P**I**F**V**P**S**D**T**I**S**G**L**G**V**E**G**W**H**D**S**A**T**G**R**D**E**V**P**S**P**A**
 FOXB_02292T0 181 Y**K**C**K**W**P**D**C**E**K**T**F**T**Q**K**K**S**L**R**V**H**A**K**T**C**R**F**Q**F**P**I**F**V**P**S**D**T**I**S**E**L**G**A**E**V**W**H**D**S**A**T**G**R**D**E**V**P**S**P**A**

C C F L H H

FOXG_17266T0 481 C**P**L**E**A**K**K**E**A**Q**Y**K**T**H**L**R**T**H**T**G**E**R**P**F**K**R**E**G**C**G**K**S**F**A**R**P**D**S**L**K**R**H**K**K**T**C**R**H**R**K**Q**E**V**L**S**L**P**Q**
 FOWG_16923T0 395 C**P**L**E**A**K**K**E**A**Q**Y**K**T**H**L**R**T**H**T**G**E**R**P**F**K**R**E**G**C**G**K**S**F**A**R**P**D**S**L**K**R**H**K**K**T**C**R**H**R**K**Q**E**V**L**S**L**P**Q**
 FOXB_02292T0 481 C**S**L**E**A**K**-----**T**F**A**R**Q**D**S**L**K**R**H**E**K**T**C**R**H**R-----

TF7: Cys2His2 domain (Pfam: zf-C2H2)

			C	C	F	L	H	H				
FOQG_18533T0	266	GI	-----A--	GSYTCTVHG	CNAAPFQ	TYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG			
FOXG_19464T0	266	GI	-----A--	GSYTCTVHG	CNAAPFQ	TYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG			
FOXG_22293T0	266	GI	-----A--	GSYTCTVHG	CNAAPFQ	TYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG			
FOXG_22413T0	266	GI	-----A--	GSYTCTVHG	CNAAPFQ	TYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG			
FOXB_08620T0	266	GI	-----A--	GSYTCTVHG	CNAAPFQ	TYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG			
FOPG_18275T0	266	GI	-----A--	GSYTCTVHG	CNAAPFQ	TYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG			
FOXG_14275T0	287	GM	THPQP	IT	--GLYTCTV	QGCHVEPF	QTYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FOWG_17588T1	287	GM	THPQP	IA	--GLYTCTF	QGCRRVDP	FQTKYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FOXG_21311T0	287	GM	THPQP	IA	--GLYTCTF	QGCRRVDP	FQTKYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FOXG_22662T0	287	GM	THPQP	IA	--GLYTCTF	QGCRRVDP	FQTKYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FOXG_21046T0	287	GM	THPQP	IA	--GLYTCTF	QGCRRVDP	FQTKYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FOXG_21006T0	287	GM	THPQP	IA	--GLYTCTF	QGCRRVDP	FQTKYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FOMG_18197T0	287	GM	THPQP	IT	--GLYTCTV	QGCHVEPF	QTYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FOVG_18828T0	287	GM	THPQP	IT	--GLYTCTV	QGCHVEPF	QTYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FOQG_16628T0	287	GM	THPQA	IT	----ICQLNQ	S-ITPLK	SIKSSNS	SF---Q	SNQITHC	-----		
FOQG_19377T0	346	GITH	PQP	IP	--GSYTCTA	NGCNAAP	FRTOYLLNSHM	DVHSSIR	PHYCPVKE	CPRSGGGKG		
FOTG_18879T0	346	GITH	PQP	IL	--GSYTCTA	NGCNAAP	FRTOYLLNSHM	NVHSSIR	PHYCPVKE	CPRSEGGKG		
FOXB_03115T0	346	GITH	PQP	IL	--GSYTCTA	NGCNAAP	FRTOYLLNSHM	NVHSSIR	PHYCPVKE	CPRSEGGKG		
FOQG_19073T0	346	GITH	PQP	IP	--GSYTCTA	NGCNAAP	FRTOYLLNSHM	NVHSSIR	PHYCPVKE	CPRSEGGKG		
Necha2_47170	340	GITH	PQP	AT	GTGAV	VCNFA	GC	TALPF	QTYLLNSH	ANVHSSIR	PHYCPVKGC	PRSEGGKG
FGSG_05381T0	228	GITH	PQH	MT	--GSYTCTV	PGCNAAP	FQTYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FVEG_07153T0	357	GITH	PQP	LS	--GSYTCTV	TGCNAAP	FQTYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FOXG_20064T0	262	GITH	PQP	LS	--GSYTCTV	TGCNAAP	FQTYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FOIG_07901T1	357	GITH	PQP	LS	--GSYTCTV	TGCNAAP	FQTYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FOQG_03601T0	357	GITH	PQP	LS	--GSYTCTV	TGCNAAP	FQTYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FOWG_04951T1	357	GITH	PQP	LS	--GSYTCTV	TGCNAAP	FQTYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FOZG_12836T0	357	GITH	PQP	LS	--GSYTCTV	TGCNAAP	FQTYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FOTG_03788T1	357	GITH	PQP	LS	--GSYTCTV	TGCNAAP	FQTYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FOVG_10762T1	357	GITH	PQP	LS	--GSYTCTV	TGCNAAP	FQTYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FOPG_01942T1	357	GITH	PQP	LS	--GSYTCTV	TGCNAAP	FQTYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FOXB_19015T1	357	GITH	PQP	LS	--GSYTCTV	TGCNAAP	FQTYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FOCG_11063T0	357	GITH	PQP	LS	--GSYTCTV	TGCNAAP	FQTYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FOYG_11053T0	357	GITH	PQP	LS	--GSYTCTV	TGCNAAP	FQTYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		
FOMG_08371T0	357	GITH	PQP	LS	--GSYTCTV	TGCNAAP	FQTYLLNSHM	NVHSSIR	PHYCPVKGC	PRSEGGKG		