Alignment

Learn how to print this alignment in color

```
1    MMQESVTETISNSSMNQNGMSTLSSQLDAGSRDGRSSGDTSSEVSTVELLHLQQQQALQAARQLLLQQQT   70   Q8MJ98   FOXP2_PONPY
1    MMQESATETISNSSMNQNGMSTLSSQLDAGSRDGRSSGDTSSEVSTVELLHLQQQQALQAARQLLLQQQT   70   Q5QL03   FOXP2_HYLLA
1    MMQESATETISNSSMNQNGMSTLSSQLDAGSRDGRSSGDTSSEVSTVELLHLQQQQALQAARQLLLQQQT   70   P0CF24   FOXP2_RAT
1    MMQESATETISNSSMNQNGMSTLSSQLDAGSRDGRSSGDTSSEVSTVELLHLQQQQALQAARQLLLQQQT   70   P58463   FOXP2_MOUSE
1    MMQESATETISNSSMNQNGMSTLSSQLDAGSRDGRSSGDTSSEVSTVELLHLQQQQALQAARQLLLQQQT   70   Q8MJA0   FOXP2_PANTR
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1    MMQESATETISNSSMNQNGMSTLSSQLDAGSRDGRSSGDTSSEVSTVELLHLQQQQALQAARQLLLQQQT   70   Q8MJ97   FOXP2_MACMU
1    MMQESATETISNSSMNQNGMSTLSSQLDAGSRDGRSSGDTSSEVSTVELLHLQQQQALQAARQLLLQQQT   70   Q8MJ99   FOXP2_GORGO
1    MMQESATETISNSSMNQNGMSTLSSQLDAGSRDGRSSGDTSSEVSTVELLHLQQQQALQAARQLLLQQQT   70   O15409   FOXP2_HUMAN
1    MMQESATETISNSSMNQNGMSTLSSQLDAGSRDGRSSSDTSSEVSTVELLHLQQQQALQAARQLLLQQQT   70   Q4VYS1   FOXP2_XENLA
     *****.*******************************.*******************************

71   SGLKSPKSSDKQRPLQVPVSVAMMTPQVITPQQMQQILQQQVLSPQQLQALLQQQQAVMLQQQQLQEFYK  140   Q8MJ98   FOXP2_PONPY
71   SGLKSPKSSDKQRPLQVPVSVAMMTPQVITPQQMQQILQQQVLSPQQLQALLQQQQAVMLQQQQLQEFYK  140   Q5QL03   FOXP2_HYLLA
71   SGLKSPKSSDKQRPLQVPVSVAMMTPQVITPQQMQQILQQQVLSPQQLQALLQQQQAVMLQQQQLQEFYK  140   P0CF24   FOXP2_RAT
71   SGLKSPKSSEKQRPLQVPVSVAMMTPQVITPQQMQQILQQQVLSPQQLQALLQQQQAVMLQQQQLQEFYK  140   P58463   FOXP2_MOUSE
71   SGLKSPKSSDKQRPLQVPVSVAMMTPQVITPQQMQQILQQQVLSPQQLQALLQQQQAVMLQQQQLQEFYK  140   Q8MJA0   FOXP2_PANTR
71   SGLKSPKSSDKQRPLQVPVSVAMMTPQVITPQQMQQILQQQVLSPQQLQALLQQQQAVMLQQQQLQEFYK  140   Q8HZ00   FOXP2_PANPA
71   SGLKSPKSSDKQRPLQVPVSVAMMTPQVITPQQMQQILQQQVLSPQQLQALLQQQQAVMLQQQQLQEFYK  140   Q8MJ97   FOXP2_MACMU
71   SGLKSPKSSDKQRPLQVPVSVAMMTPQVITPQQMQQILQQQVLSPQQLQALLQQQQAVMLQQQQLQEFYK  140   Q8MJ99   FOXP2_GORGO
71   SGLKSPKSSDKQRPLQVPVSVAMMTPQVITPQQMQQILQQQVLSPQQLQALLQQQQAVMLQQQQLQEFYK  140   O15409   FOXP2_HUMAN
71   SGLKSPKNNEKQRPLQVPVSMAMMTPQVITPQQMQQILQQQVLSPQQLQALLQQQQAVMLQQQQLQEFYK  140   Q4VYS1   FOXP2_XENLA
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141  KQQEQLHLQLLQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ--QQQQQQQHPGKQAKEQQQQQQQQQ-  207   Q8MJ98   FOXP2_PONPY
141  KQQEQLHLQLLQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ--QQQQQQQHPGKQAKEQQQQQQQQQ-  207   Q5QL03   FOXP2_HYLLA
141  KQQEQLHLQLLQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ--QQQ---QHPGKQAKEQQQQQQQQQ-  204   P0CF24   FOXP2_RAT
141  KQQEQLHLQLLQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ-QQQQQQQHPGKQAKEQQQQQQQQQ-  208   P58463   FOXP2_MOUSE
141  KQQEQLHLQLLQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQHPGKQAKEQQQQQQQQQQ  210   Q8MJA0   FOXP2_PANTR
141  KQQEQLHLQLLQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQHPGKQAKEQQQQQQQQQQ  210   Q8HZ00   FOXP2_PANPA
141  KQQEQLHLQLLQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ--HPGKQAKEQQQQQQQQQQ  208   Q8MJ97   FOXP2_MACMU
141  KQQEQLHLQLLQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQH---PGKQAKEQQQQQQQQQQ  207   Q8MJ99   FOXP2_GORGO
141  KQQEQLHLQLLQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ-HPGKQAKEQQQQQQQQQQ  209   O15409   FOXP2_HUMAN
141  KQQEQLHLQLLQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ---QQQPQPHPGKQAKEQQQ-------  200   Q4VYS1   FOXP2_XENLA
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208  LAAQQLVFQQQLLQMQQLQQQQHLLSLQRQGLISIPPGQAALPVQSLPQAGLSPAEIQQLWKEVTGVHSM  277   Q8MJ98   FOXP2_PONPY
208  LAAQQLVFQQQLLQMQQLQQQQHLLSLQRQGLISIPPGQAALPVQSLPQAGLSPAEIQQLWKEVTGVHSM  277   Q5QL03   FOXP2_HYLLA
205  LAAQQLVFQQQLLQMQQLQQQQHLLSLQCQGLISIPPGQAALPVQSLPQAGLSPAEIQQLWKEVTGVHSQ  274   P0CF24   FOXP2_RAT
209  LAAQQLVFQQQLLQMQQLQQQQHLLSLQRQGLISIPPGQAALPVQSLPQAGLSPAEIQQLWKEVTGVHSM  278   P58463   FOXP2_MOUSE
211  LAAQQLVFQQQLLQMQQLQQQQHLLSLQRQGLISIPPGQAALPVQSLPQAGLSPAEIQQLWKEVTGVHSM  280   Q8MJA0   FOXP2_PANTR
211  LAAQQLVFQQQLLQMQQLQQQQHLLSLQRQGLISIPPGQAALPVQSLPQAGLSPAEIQQLWKEVTGVHSM  280   Q8HZ00   FOXP2_PANPA
209  LAAQQLVFQQQLLQMQQLQQQQHLLSLQRQGLISIPPGQAALPVQSLPQAGLSPAEIQQLWKEVTGVHSM  278   Q8MJ97   FOXP2_MACMU
208  LAAQQLVFQQQLLQMQQLQQQQHLLSLQRQGLISIPPGQAALPVQSLPQAGLSPAEIQQLWKEVTGVHSM  277   Q8MJ99   FOXP2_GORGO
210  LAAQQLVFQQQLLQMQQLQQQQHLLSLQRQGLISIPPGQAALPVQSLPQAGLSPAEIQQLWKEVTGVHSM  279   O15409   FOXP2_HUMAN
201  LAAQQLVFQQQLLQMQQLQQQQHLLNLQRQGLISIPPSQSALPVQSLPQAGLSPAEIQQLWKEVTGVHSM  270   Q4VYS1   FOXP2_XENLA
     *************************.** ********.*.:****************************

278  EDNGIKHGGLDLTTNNSSSTTSSTTSKASPPITHHSIVNGQSSVLNARRDSSSHEETGASHTLYGHGVCK  347   Q8MJ98   FOXP2_PONPY
278  EDNGIKHGGLDLTTNNSSSTTSSTTSKASPPITHHSIVNGQSSVLNARRDSSSHEETGASHTLYGHGVCK  347   Q5QL03   FOXP2_HYLLA
275  EDNGIKHGGLDLTTNNSSSTTSSTTSKASPPITHHSIVNGQSSVLNARRDSSSHEETGASHTLYGHGVCK  344   P0CF24   FOXP2_RAT
279  EDNGIKHGGLDLTTNNSSSTTSSTTSKASPPITHHSIVNGQSSVLNARRDSSSHEETGASHTLYGHGVCK  348   P58463   FOXP2_MOUSE
281  EDNGIKHGGLDLTTNNSSSTTSSTTSKASPPITHHSIVNGQSSVLNARRDSSSHEETGASHTLYGHGVCK  350   Q8MJA0   FOXP2_PANTR
281  EDNGIKHGGLDLTTNNSSSTTSSTTSKASPPITHHSIVNGQSSVLNARRDSSSHEETGASHTLYGHGVCK  350   Q8HZ00   FOXP2_PANPA
279  EDNGIKHGGLDLTTNNSSSTTSSTTSKASPPITHHSIVNGQSSVLNARRDSSSHEETGASHTLYGHGVCK  348   Q8MJ97   FOXP2_MACMU
278  EDNGIKHGGLDLTTNNSSSTTSSTTSKASPPITHHSIVNGQSSVLNARRDSSSHEETGASHTLYGHGVCK  347   Q8MJ99   FOXP2_GORGO
280  EDNGIKHGGLDLTTNNSSSTTSSNTSKASPPITHHSIVNGQSSVLSARRDSSSHEETGASHTLYGHGVCK  349   O15409   FOXP2_HUMAN
271  EDNGIKHGGLDLTTNISSSTTSTTSKASPPITHHSLLNGQASVLSARRDSSSHEETGASHTLYGHGVCK  340   Q4VYS1   FOXP2_XENLA
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348  WPGCESICEDFGQFLKHLNNEHALDDRSTAQCRVQMQVVQQLEIQLSKERERLQAMMTHLHMRPSEPKPS  417   Q8MJ98   FOXP2_PONPY
348  WPGCESICEDFGQFLKHLNNEHALDDRSTAQCRVQMQVVQQLEIQLSKERERLQAMMTHLHMRPSEPKPS  417   Q5QL03   FOXP2_HYLLA
345  WPGCESICEDFGQFLKHLNNEHALDDRSTAQCRVQMQVVQQLEIQLSKERERLQAMMTHLHMRPSEPKPS  414   P0CF24   FOXP2_RAT
349  WPGCESICEDFGQFLKHLNNEHALDDRSTAQCRVQMQVVQQLEIQLSKERERLQAMMTHLHMRPSEPKPS  418   P58463   FOXP2_MOUSE
351  WPGCESICEDFGQFLKHLNNEHALDDRSTAQCRVQMQVVQQLEIQLSKERERLQAMMTHLHMRPSEPKPS  420   Q8MJA0   FOXP2_PANTR
351  WPGCESICEDFGQFLKHLNNEHALDDRSTAQCRVQMQVVQQLEIQLSKERERLQAMMTHLHMRPSEPKPS  420   Q8HZ00   FOXP2_PANPA
349  WPGCESICEDFGQFLKHLNNEHALDDRSTAQCRVQMQVVQQLEIQLSKERERLQAMMTHLHMRPSEPKPS  418   Q8MJ97   FOXP2_MACMU
348  WPGCESICEDFGQFLKHLNNEHALDDRSTAQCRVQMQVVQQLEIQLSKERERLQAMMTHLHMRPSEPKPS  417   Q8MJ99   FOXP2_GORGO
350  WPGCESICEDFGQFLKHLNNEHALDDRSTAQCRVQMQVVQQLEIQLSKERERLQAMMTHLHMRPSEPKPS  419   O15409   FOXP2_HUMAN
341  WPGCENICEDFGQFLKHLNNEHALDDRSTAQCRVQMQVVQQLEIQLSKERERLQAMMTHLHMRPSEPKPS  410   Q4VYS1   FOXP2_XENLA
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418  PKPLNLVSSVTMSKNMLETSPQSLPQTPTTPTAPVTPITQGPSVITPASVPNVGAIRRRHSDKYNIPMSS  487   Q8MJ98   FOXP2_PONPY
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415  PKPLNLVSSVTMSKNMLETSPQSLPQTPTTPTAPVTPITQGPSVITPASVPNVGAIRRRHSDKYNIPMSS  484   P0CF24   FOXP2_RAT
419  PKPLNLVSSVTMSKNMLETSPQSLPQTPTTPTAPVTPITQGPSVITPASVPNVGAIRRRHSDKYNIPMSS  488   P58463   FOXP2_MOUSE
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488  EIAPNYEFYKNADVRPPFTYATLIRQAIMESSDRQLTLNEIYSWFTRTFAYFRRNAATWKNAVRHNLSLH  557  Q8MJ98   FOXP2_PONPY
488  EIAPNYEFYKNADVRPPFTYATLIRQAIMESSDRQLTLNEIYSWFTRTFAYFRRNAATWKNAVRHNLSLH  557  Q5QL03   FOXP2_HYLLA
485  EIAPNYEFYKNADVRPPFTYATLIRQAIMESSDRQLTLNEIYSWFTRTFAYFRRNAATWKNAVRHNLSLH  554  P0CF24   FOXP2_RAT
489  EIAPNYEFYKNADVRPPFTYATLIRQAIMESSDRQLTLNEIYSWFTRTFAYFRRNAATWKNAVRHNLSLH  558  P58463   FOXP2_MOUSE
491  EIAPNYEFYKNADVRPPFTYATLIRQAIMESSDRQLTLNEIYSWFTRTFAYFRRNAATWKNAVRHNLSLH  560  Q8MJA0   FOXP2_PANTR
491  EIAPNYEFYKNADVRPPFTYATLIRQAIMESSDRQLTLNEIYSWFTRTFAYFRRNAATWKNAVRHNLSLH  560  Q8HZ00   FOXP2_PANPA
489  EIAPNYEFYKNADVRPPFTYATLIRQAIMESSDRQLTLNEIYSWFTRTFAYFRRNAATWKNAVRHNLSLH  558  Q8MJ97   FOXP2_MACMU
488  EIAPNYEFYKNADVRPPFTYATLIRQAIMESSDRQLTLNEIYSWFTRTFAYFRRNAATWKNAVRHNLSLH  557  Q8MJ99   FOXP2_GORGO
490  EIAPNYEFYKNADVRPPFTYATLIRQAIMESSDRQLTLNEIYSWFTRTFAYFRRNAATWKNAVRHNLSLH  559  O15409   FOXP2_HUMAN
481  EIAPNYEFYKNADVRPPFTYATLIRQAIMESSDRQLTLNEIYSWFTRTFAYFRRNAATWKNAVRHNLSLH  550  Q4VYS1   FOXP2_XENLA
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558  KCFVRVENVKGAVWTVDEVEYQKRRSQKITGSPTLVKNIPTSLGYGAALNASLQAALAESSLPLLSNPGL  627  Q8MJ98   FOXP2_PONPY
558  KCFVRVENVKGAVWTVDEVEYQKRRSQKITGSPTLVKNIPTSLGYGAALNASLQAALAESSLPLLSNPGL  627  Q5QL03   FOXP2_HYLLA
555  KCFVRVENVKGAVWTVDEVEYQKRRSQKITGSPTLVKNIPTSLGYGAALNASLQAALAESSLPLLSNPGL  624  P0CF24   FOXP2_RAT
559  KCFVRVENVKGAVWTVDEVEYQKRRSQKITGSPTLVKNIPTSLGYGAALNASLQAALAESSLPLLSNPGL  628  P58463   FOXP2_MOUSE
561  KCFVRVENVKGAVWTVDEVEYQKRRSQKITGSPTLVKNIPTSLGYGAALNASLQAALAESSLPLLSNPGL  630  Q8MJA0   FOXP2_PANTR
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559  KCFVRVENVKGAVWTVDEVEYQKRRSQKITGSPTLVKNIPTSLGYGAALNASLQAALAESSLPLLSNPGL  628  Q8MJ97   FOXP2_MACMU
558  KCFVRVENVKGAVWTVDEVEYQKRRSQKITGSPTLVKNIPTSLGYGAALNASLQAALAESSLPLLSNPGL  627  Q8MJ99   FOXP2_GORGO
560  KCFVRVENVKGAVWTVDEVEYQKRRSQKITGSPTLVKNIPTSLGYGAALNASLQAALAESSLPLLSNPGL  629  O15409   FOXP2_HUMAN
551  KCFVRVENVKGAVWTVDEAEYQKRRSQKITASPTLVKNIPTSLGYGAALNASLQAALAESSLPLLSNTGL  620  Q4VYS1   FOXP2_XENLA
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628  INNASSGLLQAVHEDLNGSLDHIDSNGNSSPGCSPQPHIHSIHVKEEPVIAEDEDCPMSLVTTANHSPEL  697  Q8MJ98   FOXP2_PONPY
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625  INNASSGLLQAVHEDLNGSLDHIDSNGNSSPGCSPQPHIHSIHVKEEPVIAEDEDCPMSLVTTANHSPEL  694  P0CF24   FOXP2_RAT
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630  INNASSGLLQAVHEDLNGSLDHIDSNGNSSPGCSPQPHIHSIHVKEEPVIAEDEDCPMSLVTTANHSPEL  699  O15409   FOXP2_HUMAN
621  LNNASTGLLQAVHEDLNGSLDHIDSNGNSSAGCSPQPHIHSIHVKEEPLIADDEDCPMSLVTTANHSPEL  690  Q4VYS1   FOXP2_XENLA
     :.****:*************************.*****************:**:******************

698  EDDREIEEEPLSEDLE  713  Q8MJ98   FOXP2_PONPY
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695  EDDREIEEEPLSEDLE  710  P0CF24   FOXP2_RAT
699  EDDREIEEEPLSEDLE  714  P58463   FOXP2_MOUSE
701  EDDREIEEEPLSEDLE  716  Q8MJA0   FOXP2_PANTR
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699  EDDREIEEEPLSEDLE  714  Q8MJ97   FOXP2_MACMU
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700  EDDREIEEEPLSEDLE  715  O15409   FOXP2_HUMAN
691  EEDRELEEEPLSEDLE  706  Q4VYS1   FOXP2_XENLA
     *.****.**********
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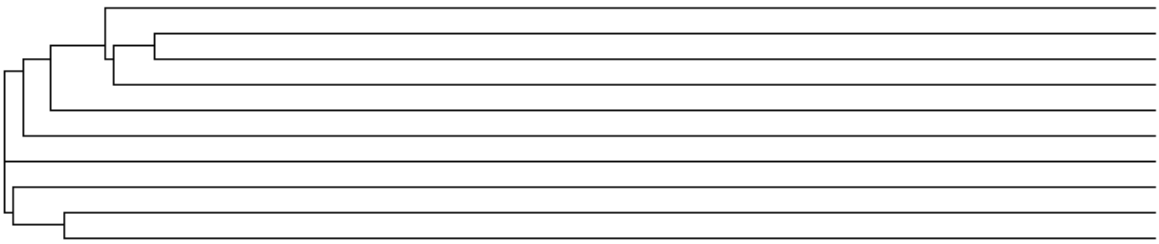
You may add additional sequences to this alignment (in FASTA format)

Add sequence and align

Guide tree



Job information

Query

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>sp|Q8MJ99|FOXP2_GORGO Forkhead box protein P2 OS=Gorilla gorilla gorilla GN=FOXP2 PE=2 SV=1
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SIPPGQAALPVQSLPQAGLSPAEIQQLWKEVTGVHSMEDNGIKHGGLDLTTNNSSSTTSS
TTSKASPPITHHSIVNGQSSVLNARRDSSSHEETGASHTLYGHGVCKWPGCESICEDFGQ
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SPQPHIHSIHVKEEPVIAEDEDCPMSLVTTANHSPELEDDREIEEEPLSEDLE
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>sp|Q8MJ98|FOXP2_PONPY Forkhead box protein P2 OS=Pongo pygmaeus GN=FOXP2 PE=2 SV=3
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Date run	Apr 28, 2011
Running time	14.4 seconds
Identical positions	669
Similar positions	29
Algorithm	clustalw

Annotation Customize

	Accession	Entry name	Protein names	Organism	Gene names

☑	Q8MJ98	FOXP2_PONPY	**Forkhead box protein P2**	Pongo pygmaeus (Bornean orangutan)	**FOXP2**
☑	Q5QL03	FOXP2_HYLLA	**Forkhead box protein P2**	Hylobates lar (Common gibbon)	**FOXP2**
☑	P0CF24	FOXP2_RAT	**Forkhead box protein P2**	Rattus norvegicus (Rat)	**Foxp2**
☑	P58463	FOXP2_MOUSE	**Forkhead box protein P2**	Mus musculus (Mouse)	**Foxp2**
☑	Q8MJA0	FOXP2_PANTR	**Forkhead box protein P2**	Pan troglodytes (Chimpanzee)	**FOXP2**
☑	Q8HZ00	FOXP2_PANPA	**Forkhead box protein P2**	Pan paniscus (Pygmy chimpanzee) (Bonobo)	**FOXP2**
☑	Q8MJ97	FOXP2_MACMU	**Forkhead box protein P2**	Macaca mulatta (Rhesus macaque)	**FOXP2**
☑	Q8MJ99	FOXP2_GORGO	**Forkhead box protein P2**	Gorilla gorilla gorilla (Lowland gorilla)	**FOXP2**
☑	O15409	FOXP2_HUMAN	**Forkhead box protein P2**	Homo sapiens (Human)	**FOXP2** CAGH44 TNRC10
☑	Q4VYS1	FOXP2_XENLA	**Forkhead box protein P2**	Xenopus laevis (African clawed frog)	**foxp2**

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