

EPAS1, exon 6

	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310																																																																																																																																											
Consensus Identity	K	X	M	S	T	E	R	D	F	F	M	R	M	K	C	T	V	T	N	R	G	R	T	V	N	L	K	S	A	T	W	K	V	L	H	C	T	G	O	V	K	V	N	X	C	P	P	H	X	X	L	C	G	Y	K	E	P	L	L	X	C	L	I	I	M	C	E	P	I	Q	H	P	S	X	X	D	I	P	L	D	S	K	T	F	X	S	R	H	S	M	D	M	K	F	T	Y	C	D	D	R	I	T	E	L	I	G	Y	H	P	E	E	L	L	G	R	S	A	Y	E	F	Y	H	A	L	D	S	E	N	M	T	K	S	H	Q	N	L	C	T	K	G	O	V	V	X	G	O	Y	R	M	L	A	K	H	G	G
1. Human EPAS aa	K	D	M	S	T	E	R	D	F	F	M	R	M	K	C	T	V	T	N	R	G	R	T	V	N	L	K	S	A	T	W	K	V	L	H	C	T	G	O	V	K	V	N	N	C	P	P	H	N	S	L	C	G	Y	K	E	P	L	L	S	C	L	I	I	M	C	E	P	I	Q	H	P	S	H	M	D	I	P	L	D	S	K	T	F	L	S	R	H	S	M	D	M	K	F	T	Y	C	D	D	R	I	T	E	L	I	G	Y	H	P	E	E	L	L	G	R	S	A	Y	E	F	Y	H	A	L	D	S	E	N	M	T	K	S	H	Q	N	L	C	T	K	G	O	V	V	S	G	O	Y	R	M	L	A	K	H	G	G
2. Mallard EPAS aa	K	E	M	S	T	E	R	D	F	F	M	R	M	K	C	T	V	T	N	R	G	R	T	V	N	L	K	S	A	T	W	K	V	L	H	C	T	G	O	V	K	V	N	T	C	P	P	H	-	T	L	C	G	Y	K	E	P	L	L	T	C	L	I	I	M	C	E	P	I	Q	H	P	S	N	I	D	I	P	L	D	S	K	T	F	M	S	R	H	S	M	D	M	K	F	T	Y	C	D	D	R	I	T	E	L	I	G	Y	H	P	E	E	L	L	G	R	S	A	Y	E	F	Y	H	A	L	D	S	E	N	M	T	K	S	H	Q	N	L	C	T	K	G	O	V	V	T	G	O	Y	R	M	L	A	K	H	G	G

EPAS1, exon 12

	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680
Consensus Identity	XX Q T D F N E L D L E T L A P I P M D G E D F Q L S P I C X E E R X L X E X X X X X S M X I F O P L A X X X X F L X X X X O L X X X X P X H X X S S X F F B X X S X X S L P P X X O A S T P L S S M G G R X N T Q W P P D P P L X X X P X X K X X X D X X X X L X X X P X X X G P P X X X P X X X X K X X X R X X X																
1. Human EPAS aa	IST Q T D F N E L D L E T L A P I P M D G E D F Q L S P I C P E E R L L A E N P O S T P O H C F S A M T N I F O P L A P V A P H S P F L D K F Q O L E S K K T E P E H R P M S S I F F D A G S K A S L P P C C G O A S T P L S S M G G R S N T Q W P P D P P L E F G P T K W A V G D O R T E F L G A P L G P P V S P P H V S T F K T R S A K																
2. Mallard EPAS aa	NS Q T D F N E L D L E T L A P I P M D G E D F Q L S P I C Q E E R P L S E S A N T O Q S L S S M S T I F O P L A S A S Q N Q L E P E K Y C P O L S N K N I N P G H G S L S S V F F N N M S R S S L P P Y H D O A S T P L S S M G G R P N T Q W P P D P P L E V P A K W R L M D K Y S G T L S S S P S G P P I H S P G M P V Y K R P L D																

EGLN1, exon 2

Consensus Identity

270 280 290 300 310 320 330 340 350 360 370 380 390

GCZTI~~X~~LLM~~X~~SMDDLIRHCNGKLG~~X~~Y~~X~~INGRTKAMVACYPGNGTGYVRHVDNPNGDGRCVTCTIYYLNKDWDAAKVS~~G~~GILRIFPEGKAQFADIEPKFDRLLFFWSDRRNPHEVQPA~~X~~ATRYAITVWYFD

1. Human EGLN1 aa GCETIGLLMS~~S~~SMDDLIRHCNGKLG~~S~~Y~~K~~INGRTKAMVACYPGNGTGYVRHVDNPNGDGRCVTCTIYYLNKDWDAAKVS~~G~~GILRIFPEGKAQFADIEPKFDRLLFFWSDRRNPHEVQPA~~Y~~ATRYAITVWYFD

2. Mallard EGLN1 aa GCQTIRLLMN~~N~~SMDDLIRHCNGKLG~~N~~Y~~H~~INGRTKAMVACYPGNGTGYVRHVDNPNGDGRCVTCTIYYLNKDWDAAKVS~~G~~GILRIFPEGKAQFADIEPKFDRLLFFWSDRRNPHEVQPA~~F~~ATRYAITVWYFD

exon_2_human

exon_2_mallard