

Kurza katalaza

Uniprot: A0A1L1RX38

- $2\text{H}_2\text{O}_2 \rightarrow 2\text{H}_2\text{O} + \text{O}_2$
- głównie w peroksysomach
- 528 reszt aminokwasowych
- 59,8 kDa
- pI = 8,1
- zawiera hem z maksimum absorpcji przy 407 nm

Porównanie kurzej, mysiej i szczurzej

	Kurza	Mysia	Szczurza
Masa	59,8 kDa	59,8 kDa	59,8 kDa
pl	8,1	7,7	7,1
UniProt	A0A1L1RX38	P24270	P04762

tr A0A1L1RX38 A0A1L1RX38_CHICK sp P24270 CATA_MOUSE sp P04762 CATA_RAT	MADGRDVASEQLKRWQSQRGSQKPDALTTGAGNPIGDKLNIMTVGPRGPLLVDVVFTDE MSDSRDPASDQMKQWKEQRASQRPDVLTTGGGNPIGDKLNIMTAGSRGPLLVDVVFTDE MADSRDPASDQMKQWKEQRAPQKPDVLTTGGGNPIGDKLNIMTAGPRGPLLVDVVFTDE *:.** **:::*.**.*:*.****.******.* *****	60 60 60
tr A0A1L1RX38 A0A1L1RX38_CHICK sp P24270 CATA_MOUSE sp P04762 CATA_RAT	MAHFRERIPERVVHAKGAGAFGYFEVTHDITKYCKAKVFEHIGKRTPIAIRFSTVAGES MAHFRERIPERVVHAKGAGAFGYFEVTHDITRYSKAKVFEHIGKRTPIAVRFSTVTGES MAHFRERIPERVVHAKGAGAFGYFEVTHDITRYSKAKVFEHIGKRTPIAVRFSTVAGES *****:*.*****:*****:***	120 120 120
tr A0A1L1RX38 A0A1L1RX38_CHICK sp P24270 CATA_MOUSE sp P04762 CATA_RAT	GSADTVRDPGRGFAMKFYTEEGNWDLVGNNTPIFFIRDAMLFPSFIHSQKRNPQTHLKDPD GSADTVRDPGRGFAVKFYTEDGNWDLVGNNTPIFFIRDAILFPSFIHSQKRNPQTHLKDPD GSADTVRDPGRGFAVKFYTEDGNWDLVGNNTPIFFIRDAMLFPSFIHSQKRNPQTHLKDPD *****:*****:*****:*****:*****:*****	180 180 180
tr A0A1L1RX38 A0A1L1RX38_CHICK sp P24270 CATA_MOUSE sp P04762 CATA_RAT	MVWDFLSLRPESLHQVSFLYSDRGIPDGFRHMNGYGSHTFKLVNASGGAVYCKFHVKTDQ MVWDFWLSLRPESLHQVSFLYSDRGIPDGHRHMNGYGSHTFKLVNADGEAVYCKFHYKTDQ MVWDFWLSLRPESLHQVTFLYSDRGIPDGHRHMNGYGSHTFKLVNANGEAVYCKFHYKTDQ ***** ** *****:*****:*****.* ***** *	240 240 240
tr A0A1L1RX38 A0A1L1RX38_CHICK sp P24270 CATA_MOUSE sp P04762 CATA_RAT	GIKNLSVEEAARLA-SDPDYGIRDLYNAIANGNYPWSFYIQVMTFEEAERFPFNPFDLT GIKNLPVGEAGRLAQEDPDYGLRDLFNAIANGNYPWSFYIQVMTFKEAETFPFNPFDLT GIKNLPVEEAGRLAQEDPDYGLRDLFNAIASGNYPWSFYIQVMTFKEAETFPFNPFDLT ***** * **.* ** .*****:*****:*****.******:*****:*** *****	299 300 300
tr A0A1L1RX38 A0A1L1RX38_CHICK sp P24270 CATA_MOUSE sp P04762 CATA_RAT	KTKIWPBGDYPLIPVKGKLVNLRNPVNYFTEVEQMAFDPSNMPPGIEPSDKMLQGRLFAY --KVWPHKDYPLIPVKGKLVNLRNPVNYFAEVEQMAFDPSNMPPGIEPSDKMLQGRLFAY --KVWPHKDYPLIPVKGKLVNLRNPANYFAEVEQMAFDPSNMPPGIEPSDKMLQGRLFAY *:.*** *****:*****:*****.******:*****:*****	359 358 358
tr A0A1L1RX38 A0A1L1RX38_CHICK sp P24270 CATA_MOUSE sp P04762 CATA_RAT	PDTHRHLGPNYLQIPVNCYPYRARVANYQRDGPVSDNQQGAPNYPNSFTGPEQPVLP PDTHRHLGPNYLQIPVNCYPYRARVANYQRDGPVSDNQQGAPNYPNSFSAPEQQRSA PDTHRHLGPNYLQIPVNCYPYRARVANYQRDGPVSDNQQGAPNYPNSFSAPEQQGS *****:*****:*****:*****:*****:*****	419 418 418
tr A0A1L1RX38 A0A1L1RX38_CHICK sp P24270 CATA_MOUSE sp P04762 CATA_RAT	KESRMSVSGDVQRFSSANEDNVSQVRDFYLVKVKEDERQRLCKNIADH-KDAQLFIQKRA LEHSVQCAVDVKRFNSANEDNVTQVRTFYTKVLEERKRLCENIAGHLKDAQLFIQKKA LEHHSQCSADVQRFNSANEDNVTQVRTFYTKVLEERKRLCENIANHLKDAQLFIQKKA * . : **:*.******:*** ** ***:***:***:***.* *****:***	478 478 478
tr A0A1L1RX38 A0A1L1RX38_CHICK sp P24270 CATA_MOUSE sp P04762 CATA_RAT	VKNFTDVHPDYGARIQALLDKYNAEAGKKDVIRTYTQATSRVSAKERSNL 528 VKNFTDVHPDYGARIQALLDKYNAEKPK-NAIHTYTQAGSHMAAKGKANL 527 VKNFTDVHPDYGARVQALLDQYNSQKPK-NAIHTYVQAGSHIAAKGKANL 527 *****:*****:*****:*****:*****:*****	528 527 527

Jak rejestrować reakcję katalizowaną przez katalazę?

- Szkolna: krążki bibułowe na dnie probówki z H_2O_2
- Scientific Reports: H_2O_2 z Triton X-100, pomiar linijką
- Spektrofotometrycznie: 230 nm
- Zegar jodowy