



Title	Circulating salmon 41-kDa insulin-like growth factor binding protein (IGFBP) is not IGFBP-3 but an IGFBP-2 subtype
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humanALS      M A L R K G G L A L A L L L L S W V A L G P R S L E G A D - - - - - P G T P G E A E G - - - - - P A C P A A C 45
zebrafishALS  - - - - - M S P F V L L L L H T L G T S V V L A N P E S K P S D Q P R L S G D P K P S E E P T G Q K S E P C A K G C 53
troutALS      - - - - - M H T I V L L V L W V L G T S L V L P D P D - - - - - T G G E K P T E P - - - - - I P C S K G C 38

humanALS      V C S Y D D D A D E L S V F C S S R N L T R L P D G V P G G T Q A L W L D G N N L S S V P P A A F Q N L S S L G F L N L 105
zebrafishALS  T C L Q D D Y S L E L N V Y C S T R N F T Q V P S D I P L S T R S L W L D G N L F S N L P A G A F E K L T N L E F L N L 113
troutALS      T C L H D D Y S L E L N V Y C S A R N Y T Q A P S D V P V S T R S L W L D G N L F T T L P A T A F K D L S N L D F L N L 98

humanALS      Q G G Q L G S L E P Q A L L G L E N L C H L H L E R N Q L R S L A L G T F A H T P A L A S L G L S N N R L S R L E D G L 165
zebrafishALS  Q S S L L V S L D A H A F R G L N S L A H L H L E R N N L R S L S G L V F Q G T S N L A T L S L N N N Q M F R I D D R L 173
troutALS      Q S G Q L V S L D S Q V F R G L K S L A H I H L E R N R I R S L P G T I F Q N T P N L A S L S L H N N Q L S R I E E K L 158

humanALS      F E G L G S L W D L N L G W N S L A V L P D A A F R G L G S L R E L V L A G N R L A Y L Q P A L F S G L A E L R E L D L 225
zebrafishALS  F A G M S H M W L L N L G W N L L S V L P E T G F Q D L H G L R E L I L A G N R L A Y L Q P Q L F Q G L N E L K E L D L 233
troutALS      F A G L P H M W L L N L G W N S L A V L P E T G F H D L H G L R E L V L A G N R L A Y L Q P Q L F Q G L T E L K E L D L 218

humanALS      S R N A L R A I K A N V F V Q L P R L Q K L Y L D R N L I A A V A P G A F L G L K A L R W L D L S H N R V A G L L E D T 285
zebrafishALS  T G N Y L K V I K A N V F L K L P K L Q K L Y L G Q N Q I V T V A P R A F V G M K S L R W L D L S R N R L T V L H D E T 293
troutALS      T G N Y L K V I K A N V F M K L P K L Q K L Y L A Q N Q I V T V P R A F V G M K S L R W L D L T N N K L S A L H D E T 278

humanALS      F P G L L G L R V L R L S H N A I A S L R P R T F K D L H F L E E L Q L G H N R I R Q L A E R S F E G L G Q L E V L T L 345
zebrafishALS  F I G L Q S L H V L R L S N N S I N S L R P G T F R D L Q Y L E E L C L Y H N Q I R A L G V R V F E G L G H L E V L N L 353
troutALS      F L G L S L H V L R L S N N S I S G L R P R T F R D L Q Y L E E L R L S Y N R I H A L G D R I F E G L G H L E V L E L 338

humanALS      D H N Q L Q E V K A G A F L G L T N V A V M N L S G N C L R N L P E Q V F R G L G K L H S L H L E G S C L G R I R P H T 405
zebrafishALS  E N N R L Q E A R M G T F M G L N H L A V M K L T G S C F H S L P D Q V F K G L S K L H S I H L D R S C L T K V S S Q S 413
troutALS      E H N Q V Q E A R M G T F M G L S H L A V I N L S G S C F R S L P D Q V F K G L A K L H S L H L D K G C L T R V T T Q A 398

humanALS      F T G L S G L R R L F L K D N G L V G I E E Q S L W G L A E L L E L D L T S N Q L T H L P H R L F Q G L G K L E Y L L L 465
zebrafishALS  F S G L T G L R R L F L Q H N N T S L V E R Q S F V E L Q R L Q Q L D L R F N K L T T I T S N T F Y G L K N L D Y L L L 473
troutALS      F I G L S G L R R L F L Q N N N T S V V E R Q S F V E L L G L Q Q L D L R F N K L E V L T S H T F Y G L K N L D Y L L L 458

humanALS      S R N R L A E L P A D A L G P L Q R A F W L D V S H N R L E A L P N S L L A P L G R L R Y L S L R N N S L R T F T P Q P 525
zebrafishALS  S G N L L H N L P A E A L L P L Q H L S W L D L S G N K L E L I L N A T I Y M L P R L R Y L N L K D N I L V N L P V S I 533
troutALS      S S N L F R Q L P S E A L M P L K H L S W L D L S A N R L E I L H N G T M Q L L P R L R Y L N L K D N A L S S I P P D I 518

humanALS      P G - L E R L W L E G N P W D C G C P L K A L R D F A L Q N P S A V P R F V Q A I C E G D D C Q P P A Y T Y N N I T C A 584
zebrafishALS  P E S L D Q L W L S G N N W K C D C S A K P F R D F I L Q K P Q V V P L Q V E M L G E G E E P H T L I T V Y N N V T C A 593
troutALS      P D T L H Q L W L T G N R W N C D C S V L P L R D Y S L R R P Q T V P R Q V E T L A E G E E P H T V V T I Y N N I T C N 578

humanALS      S P P E V V G L D L R D L S E A H F A P C 605
zebrafishALS  S P S S A S G L D L R N I A A E H F R D C 614
troutALS      S P P G L V G H D L R D I S N E H F K N C 599

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Supplemental Fig. S1 Comparison of deduced amino acid sequences of human and fish acid-labile subunit (ALS). Potential N-glycosylation sites are in solid-lined boxes. The sequences were obtained from GenBank for human ALS (accession no. AAA36047) and the TIGR Gene Indices for zebrafish (TC388691) and rainbow trout (TC162415).