

Human	LHGMTVVIRKKFSASRFWDDC
Mouse	LHGMTVVIRKKFSASRFWDDC
Chicken	LQGMTVVIRKKFSASHFWEDC
Dog	LHGMTVVIRKKFSASRFWDDC
Zebra fish	IHGMTVVIRKKFSASKFWDDC
Lizard	LHGLTVVVRKKFSASGFWDDC
Frog	LHGLTVVIKKKFSASRFWDDC
FATP1	IYGLTVVLRKKFSASRFWDDC
FATP2	VAGATLALR TKFSASQFWDDC
FATP3	GIGATVVLKSKFSAGQFWEDC

Fig. S1. Alignment of FATP4 orthologs and paralogous FATP1-3 proteins showing strict conservation of a polar basic amino acid residue (Arg or Lys, single letter code) at the position corresponding to Arg311 (highlighted in green).