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(54) **Title:** METHOD OF SCREENING FOR A CARNITINE TRANSPORTER AGONIST OR ANTAGONIST AND ITS USES

(57) **Abstract:** The present invention is directed to a method of screening for a carnitine transporter agonist or for a carnitine transporter antagonist, to a kit for carrying out the method of screening for a carnitine transporter agonist or for a carnitine transporter antagonist, to a method for the manufacture of a medicament for the treatment of a carnitine transporter deficiency, to methods of diagnosis of a carnitine transporter deficiency, to the use of a protein for the manufacture of an antibody reacting with a carnitine transporter, to an oligonucleotide and to methods of treatment of a carnitine transporter deficiency.