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(54) **Title:** PROCESS FOR IDENTIFICATION OF COMPOUNDS FOR MODULATING THE ACTIVITY OF A SODIUM/CALCIUM EXCHANGE TRANSPORTER

(57) **Abstract:** The invention refers to a cell free assay for determining the activity of a Na^+/Ca^{2+} exchanger (NCX) protein by means of a cell free electrophysiological sensor chip, a kit of parts comprising the sensor chip with a NCX protein as well as the manufacturing and use of the kit of parts.