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Nucleotide sequence of the ϵ -subunit of the mouse muscle nicotinic acetylcholine receptor

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The two predominant types of nicotinic acetylcholine receptors expressed in mammalian muscle differ with respect to a variety of electrophysiological and biochemical properties. A developmental, innervation-dependent switch in the subunit structure of the receptor, in which a γ subunit is replaced by an ϵ subunit, is thought to account, in large part, for these differences (1). Because of the interest in the regulatory mechanisms underlying this switch, much attention has focused on these two subunits. Here I report the nucleotide and deduced amino acid sequences of a clone coding for the mouse muscle ϵ subunit isolated from a cDNA library constructed using poly (A)⁺ RNA isolated from innervated mouse diaphragm. Assignment of an initiator methionine is based on sequence comparison with the mouse genomic ϵ subunit clone (2).

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2. Buonanno *et al.* (1989) *J. Biol. Chem.* **264**, 7611–7616.

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M A G A L L G A L L L L T L F G R S Q G K N E E L S L Y H H L
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Y E G G S T E G P G E T D V I Y T L I I R R K P L F Y V I N I I V P C V L
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G G Y F N Q V P D L P Y P P C I Q P *
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