**Supplement file 1. Protein sequences of two NPF receptors, NPFR and NPYR, in the migratory locust.**

*Locusta* NPFR

MAEVPGLGAGAAALLPTAVPSLPGVARNLSVHITRILNSSQVNPHIFDQYSRNRKLDDSAAFYGLIAAYSLLILIGAAGNSLVVCAVARKPAMRTARNMFIVNLAVSDLLLCLVTMPLTLMEILTKYWPLGRQVFICKMLGALQATSIFVSTISITAIALDRYQVIVYPTRESLQKVGAIVILGCIWLVSLVLASPMFIWRALKNHDINLPDLPYISYCLEDWPVEHGRLYYSVFSLVVQYLLPIITVTVAYSRICHKLRYRYVNSSIANGKGGGGDAKASCSKHTSVRRKPKDDRRMKRTNSLLYSIALIFCISWLPLNIFNLVMDLWNPPVHDEQTMIICYAVCHMMGMSSACSNPLLYGWLNDNFRKEFHEIAAAVCPCVKLEAVRERVGSLRSSMTRRRHRRQEEADSKAATGAAGASTGRTSSRRSEAGGGGGGGAGAPARRARETPPGEGASPPREGDAAAAQADGARLRGRRHQHKESALGTTTY

*Locusta* NPYR

MGSSSEMVTVDDDVLTNSTTNICEMPGSTALSSTPFVALVVVLYGVILLGSVVGNGLVVYTITRNRAMRTVTNLLLLNLALGDLLLTLVCIPFVALPVLILQHWPFGQLLCQLVSCVQGIGVLVSAFTLIAVSGDRYWALRWPLRVRLGVRGAQRLMLFIWLLAAVTAAPIGVVSRLSQPTEWHVRCDRFMCREEWQNENHRYIYTLTLLSLQYLVPVTCLFVTYVLIVRMVWNRPQPGAGYYLRETRAVQSRRKVIVMMIAVVTAFLICWLPLNVLLLVAEHRPALEQWEGLPYLYLFCHWFAMSHACCNPVIYSWLNARFRAGFCLGLSKMPVIGKWIPHHTILDAVELVGGLSRRPSLRPELASHQRLRMPFRRPTSASSATAYGGDSPFFAETSFNFPEPQQLVSAALRRSRSVIGGGDAGSSADRPRARSVGRVLVDHIRRPSPAPADDQDSDIAANLTPPARPLLNRQSSVPHQRSFFQVTGRESARLQRPRTNLGAGRGAEGRVSPSAPPRGGGPRLTLNSLASGLGDAIDTFRQEMELQKRRVARESRRRERIEAEMRAMAGPSGAQPAQCVAKRYWPSRRPTPPRKAASQPPARPPPRPSTPPPPPPPPPPEDAERRSCCSLTMCFRGSPED-