*Supplementary Material*

**Combining Translation Readthrough Inducing Drugs and Nonsense Mediated Decay Pathway Inhibition to Rescue of CFTRW1282X in Cystic Fibrosis Cell Model System**

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**1. Chemical characterization of compounds NV848 and NV914**

Melting points were determined by Kofler. 1H NMR and 13C NMR spectra were registered on a Bruker 300 Avance (300 MHz) spectrometer, with TMS as an internal standard. IR spectra were recorded by a Shimadzu FTIR-8300 instrument (Shimadzu Corporation, Kyoto, Japan). Chromatography for purification of the samples was realized by flash silica gel (Merck, 0.040–0.063 mm) and mixtures of petroleum ether (fraction boiling at 40–60 ◦C) and ethyl acetate as eluents. HRMS spectra were recorded by analyzing a 10 ppm solution of each sample in a 6540 UHD Accurate-Mass Q-TOF LC/MS (Agilent Technologies, Inc., Santa Clara, CA, USA) equipped with a Dual AJS ESI source. Int. J. Mol. Sci. 2020, 21, 6420 11 of 18 3.2.1. Synthesis of NV848 (N-(5-methyl-1,2,4-oxadiazol-3-yl) acetamide)

**NV848**: MP 162–163 ◦C. FT-IR (cm−1 ): 3255, 3205, 3122, 1694. 1H NMR (DMSO-d6) δ (ppm): 2.15 (s, 3H), 2.60 (s, 3H), 10.85 (s, 1H). HRMS for C5H7N3O2 found 142.0535 [M + H]+ (Calcd. 142.0538).

**NV914**: MP 208–210 ◦C. FT-IR (cm−1 ), 3290, 3180, 1750. 1H NMR (300 MHz, CDCl3) δ (ppm): 9.09 (s, 1H), HRMS for C15HF10N3O2 found 445.9914 [M + H]+ (Calcd. 445.9909).