## **Supporting Information**

## Glycomic Profiling of Carcinoembryonic Antigen Isolated from Human Tumor Tissue

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Figure S1, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 1171



Figure S2, MALDI–TOF/TOF fragment ion spectra of the parent ions at m /z 1345



Figure S3, MALDI–TOF/TOF fragment ion spectra of the parent ions at m /z 1375



Figure S4, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 1416



Figure S5, MALDI–TOF/TOF fragment ion spectra of the parent ions at m /z 1579



Figure S6, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 1620



Figure S7, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 1783



Figure S8, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 1794



Figure S9, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 1824



Figure S10, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 1835



Figure S11, MALDI–TOF/TOF fragment ion spectra of the parent ions at m /z 1866



Figure S12, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 1906



Figure S13, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 1968



Figure S14, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 1987



Figure S15, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 2040



Figure S16, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 2070



Figure S17, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 2111



Figure S18, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 2143



Figure S19, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 2156



Figure S20, MALDI–TOF/TOF fragment ion spectra of the parent ions at m /z 2192



Figure S21, MALDI–TOF/TOF fragment ion spectra of the parent ions at m/z 2244



Figure S22, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 2285



Figure S23, MALDI–TOF/TOF fragment ion spectra of the parent ions at m /z 2326



Figure S24, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 2330



Figure S25, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 2395



Figure S26, MALDI–TOF/TOF fragment ion spectra of the parent ions at m /z 2401



Figure S27, MALDI–TOF/TOF fragment ion spectra of the parent ions at m /z 2418



Figure S28, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 2431



Figure S29, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 2489



Figure S30, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 2530



Figure S31, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 2562



Figure S32, MALDI–TOF/TOF fragment ion spectra of the parent ions at m /z 2605



Figure S33, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 2693



Figure S34, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 2734



Figure S35, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 2779



Figure S36, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 2792



Figure S37, MALDI–TOF/TOF fragment ion spectra of the parent ions at m /z 2850



Figure S38, MALDI–TOF/TOF fragment ion spectra of the parent ions at m /z 2880



Figure S39, MALDI–TOF/TOF fragment ion spectra of the parent ions at m/z 2938



Figure S40, MALDI–TOF/TOF fragment ion spectra of the parent ions at m /z 2953



Figure S41, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 2966



Figure S42, MALDI-TOF/TOF fragment ion spectra of the parent ions at m/z 3024



Figure S43, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 3054



Figure S44, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 3142



Figure S45, MALDI–TOF/TOF fragment ion spectra of the parent ions at m /z 3211



Figure S46, MALDI–TOF/TOF fragment ion spectra of the parent ions at m  $\rm /z$  3228



Figure S47, MALDI–TOF/TOF fragment ion spectra of the parent ions at m /z 3316



Figure S48, MALDI–TOF/TOF fragment ion spectra of the parent ions at m /z 3329



Figure S49, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 3387



Figure S50, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 3402



Figure S51, MALDI–TOF/TOF fragment ion spectra of the parent ions at m /z 3415



Figure S52, MALDI–TOF/TOF fragment ion spectra of the parent ions at m /z 3562



Figure S53, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 3576



Figure S54, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 3677



Figure S55, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 3851



Figure S56, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 4027



Figure S57, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 4213



Figure S58, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 4387



Figure S59, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 4561



Figure S60, MALDI-TOF/TOF fragment ion spectra of the parent ions at m /z 4748



Figure S61, MALDI–TOF/TOF fragment ion spectra of the parent ions at m /z 4922