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(71) Applicant *(for all designated States except US)*: **HALOZYME, INC.** [US/US]; 11388 Sorrento Valley Road, San Diego, CA 92121 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **WEI, Ge** [US/US]; 11530 Miro Circle, San Diego, CA 92131 (US). **PANNEERSELVAM, Krishnasamy** [US/US]; 14917 Morningside Drive, Poway, CA 92064 (US). **FROST, Gregory, I.** [US/US]; 13662 Mercado Drive, Del Mar, CA 92014 (US). **BOOKBINDER, Louis** [US/US]; 14823 Gable Ridge Road, San Diego, CA 92128 (US).

(74) Agents: **SEIDMAN, Stephanie, L.** et al.; K & L Gates LLP, 3580 Carmel Mountain Road, Suite 200, San Diego, CA 92130 (US).

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(54) **Title**: EXTENDED SOLUBLE PH20 POLYPEPTIDES AND USES THEREOF

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HumanPH20          MGVLKFKHIFFRSFVKSSGVSQIVFTFLLIPCCLTLNFRAPPVIPNVPFLWAWNAPSEFC 60
ChimpanzeePH20     MGVLKFKHIFFRSFVKSSGVSQIVFTFLLIPCCLTLNFRAPPVIPNVPFLWAWNAPSEFC 60
                   ************************************************************

HumanPH20          LGKFDEPLDMSLFSFIGSPRINATGQGVTIFYVDRLGYYPYIDSITGVTVNGGIPQKISL 120
ChimpanzeePH20     LGKFDEPLDMSLFSFIGSPRINVTGQDVTIFYVDRLGYYPYIDSITGVTVNGGIPQKISL 120
                   ************************.***.************************************

HumanPH20          QDHLDKAKKDITFYMPVDNLGMAVIDWEEWRPTWARNWKPKDVYKNRSIELVQQQNVQLS 180
ChimpanzeePH20     QDHLDKAKKDITFYMPVDNLGMAVIDWEEWRPTWARNWKPKDVYKNRSIELVQQQNVQLS 180
                   ************************************************************

HumanPH20          LTEATEKAKQEFEKAGKDFLVETIKLGKLLRPNHLWGYYLFPDCYNHHYKKPGYNGSCFN 240
ChimpanzeePH20     LTEATEKAKQEFEKAGKDFLVETIKLGKLLRPNHLWGYYLFPDCYNHHYKKPGYNGSCFN 240
                   ************************************************************

HumanPH20          VEIKRNDDLSWLWNESTALYPSIYLNTQQSPVAATLYVRNRVREAIRVSKIPDAKSPLPV 300
ChimpanzeePH20     VEIKRNDDLSWLWNESTALYPSIYLNTQQSPVAATLYVRNRVQEAIRVSKIPDAKSPLPV 300
                   ************************************************:***********

HumanPH20          FAYTRIVFTDQVLKFLSQDELVYTFGETVALGASGIVIWGTLSIMRSMKSCLLLDNYMET 360
ChimpanzeePH20     FVYTRIVFTDQVLKFLSQDELVYTFGETVALGASGIVIWGTLSIMRSMKSCLLLDNYMET 360
                   * ***********************************************************

HumanPH20          ILNPYIINVTLAAKMCSQVLCQEQGVCIRKNWNSSDYIHLNPDNFAIQLEKGGKFTVRGK 420
ChimpanzeePH20     ILNPYIINVTLAAKMCSQVLCQEQGVCIRKNWNSSDYLHLNPDNFAIQLEKGGKFTVRGK 420
                   ************************************************************

HumanPH20          PTLEDLEQFSEKFYCSCYSTLSCKEKADVKDTDAVDVCIADGVCIDAFLKPPMETEEPQI 480
ChimpanzeePH20     PTLEDLEQFSEKFYCSCYSTLSCKEKADVKDTDAVDVCIADGVCIDAFLKPPMETEESQI 480
                   ************************************************************.**

HumanPH20          FYNASPSTLSATMFI-VSILFLIISSVASL 509
ChimpanzeePH20     FYNASPSTLSATMFIDLCDLYLVPTSYLTL 510
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FIG. 1

(57) **Abstract**: Soluble PH20 polypeptides are provided, including extended soluble PH20 polypeptides, and uses thereof. Also provided are other C-terminally truncated PH20 polypeptides and partially deglycosylated PH20 polypeptides and uses thereof.

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