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(54) **MANUFACTURING METHODS FOR PRODUCTION OF RNA TRANSCRIPTS**

HERSTELLUNGSVERFAHREN ZUR HERSTELLUNG VON RNA-TRANSKRIPTEN

PROCÉDÉS DE FABRICATION POUR LA PRODUCTION DE TRANSCRITS D'ARN

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(56) References cited:
WO-A1-91/05058 WO-A1-2008/039669
WO-A1-2014/152030 WO-A2-02/44399
WO-A2-2007/120863 WO-A2-2008/083949
WO-A2-2009/149253 WO-A2-2014/028429
WO-A2-2014/113089 US-A1- 2004 259 097
US-B1- 6 511 832 US-B2- 8 093 367

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- **PASCOLO S: "Vaccination with messenger RNA", METHODS IN MOLECULAR MEDICINE,, 1 January 2006 (2006-01-01), pages 23-40, XP009117840, ISSN: 1543-1894**
- **WEISS RICHARD ET AL: "Prophylactic mRNA vaccination against allergy", CURRENT OPINION IN ALLERGY AND CLINICAL IMMUNOLOGY, LIPPINCOTT WILLIAMS AND WILKINS, US, vol. 10, no. 6, 1 December 2010 (2010-12-01), pages 567-574, XP009164452, ISSN: 1528-4050, DOI: 10.1097/ACI.0B013E32833FD5B6**

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EP 2 971 033 B8

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| <ul style="list-style-type: none">• VOMELOVA I ET AL: "Methods of RNA Purification. All Ways (Should) Lead to Rome", FOLIA BIOLOGICA (PRAHA),, vol. 55, no. 6, 1 January 2009 (2009-01-01), pages 243-251, XP002724956, ISSN: 0015-5500 | <ul style="list-style-type: none">• Saumya Bhaduri ET AL: "Procedure for the Preparation of Milligram Quantities of Adenovirus Messenger Ribonucleic Acid", JOURNAL OF VIROLOGY., vol. 10, no. 6, 1 December 1972 (1972-12-01), pages 1126-1129, XP055232582, US ISSN: 0022-538X |
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