

Insight into the draft whole-genome sequence of the dermatophyte *Arthroderma vanbreuseghemii*

Running title: Draft genome sequence of *A. vanbreuseghemii*

Keywords: dermatophytes; genome; mitochondria; DNA repair; protease.

Mohamed Mahdi Alshahni^{1, 2, 3}, Tsuyoshi Yamada^{2, 3}, Ayaka Yo¹, Somay Y. Murayama⁴, Makoto Kuroda⁵, Yasutaka Hoshino⁶, Jun Ishikawa⁶, Shinichi Watanabe², and Koichi Makimura^{1, 2, 3*}

¹ Institute of Medical Mycology, Teikyo University, 2-11-1, Kaga, Itabashi, Tokyo 173-8605, Japan.

² Teikyo University Institute of Medical Mycology, 359 Otsuka, Hachioji, Tokyo 192-0395 Japan.

³ General Medical Education and Research Center, 2-11-1, Kaga, Itabashi, Tokyo 173-8605, Japan.

⁴ Laboratory of Medical Microbiology, School of Pharmacy, Nihon University, Narashinodai 7-7-1, Funabashi, Chiba 274-8555, Japan.

⁵ Pathogen Genomics Center, National Institute of Infectious Diseases, Toyama 1-23-1, Shinjuku-ku, Tokyo 162-8640, Japan.

⁶ Department of Bioactive Molecules, National Institute of Infectious Diseases, Toyama 1-23-1, Shinjuku-ku, Tokyo 162-8640, Japan.

*Corresponding author. Mailing address: Institute of Medical Mycology, Teikyo University, 2-11-1, Kaga, Itabashi, Tokyo 173-8605, Japan.

Tel: +81-03-3964-8367 Fax: +81-03-3964-8413 E-mail: makimura@med.teikyo-u.ac.jp

Reference = *A. vanbreuseghemii* TIMM 2789 ; Query = *T. rubrum* CBS 118892

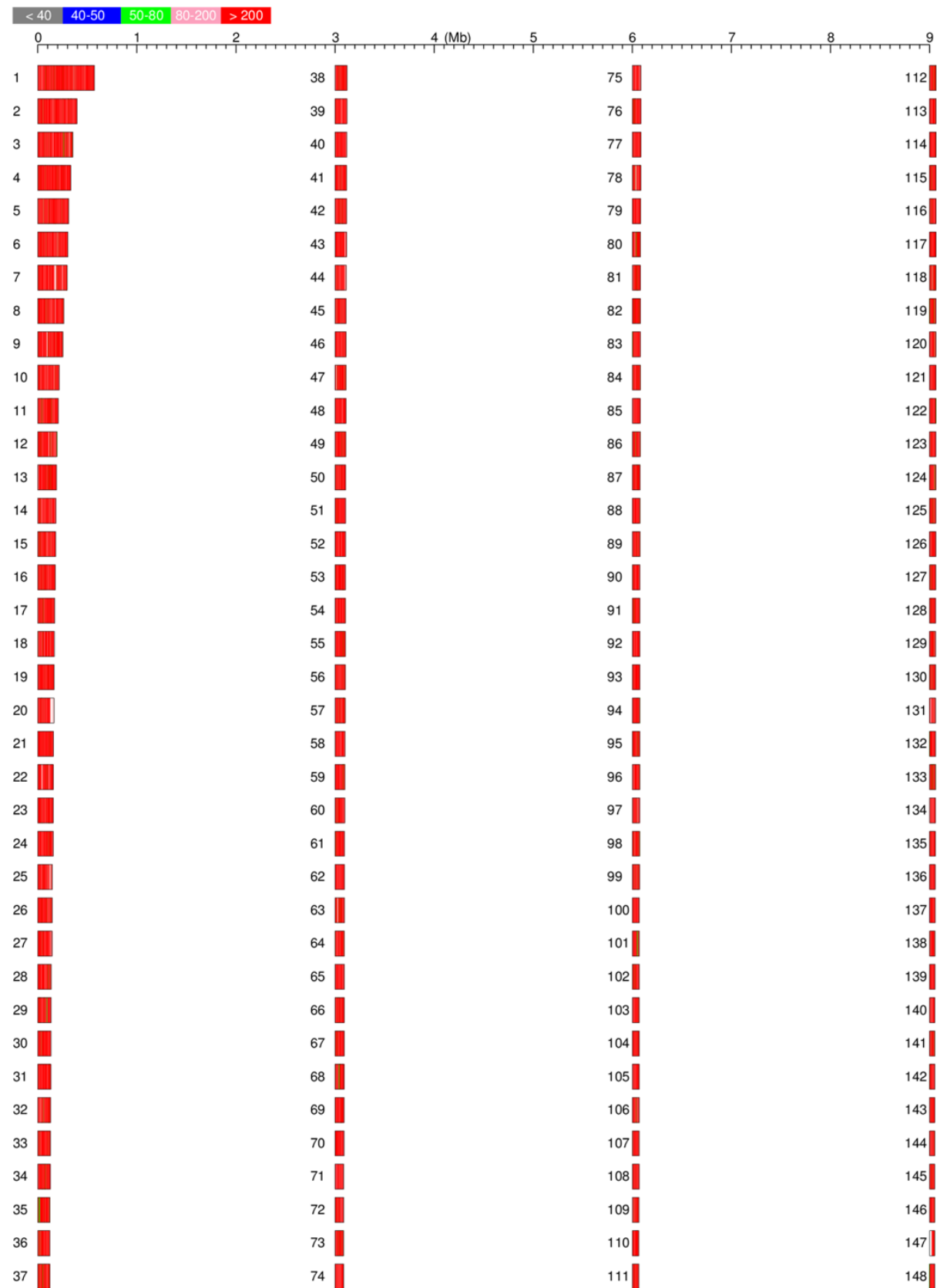


Fig. S1. Megablast graphical overview of *A. vanbreuseghemii* vs. *T. rubrum*. Diagram indicates the hits of *T. rubrum* (query) sequence aligned to *A. vanbreuseghemii* (reference) sequence. Color key for the alignment scores is displayed at the top.

Reference = *N. gypsea* CBS 118893; Query = *A. vanbreuseghemii* TIMM 2789

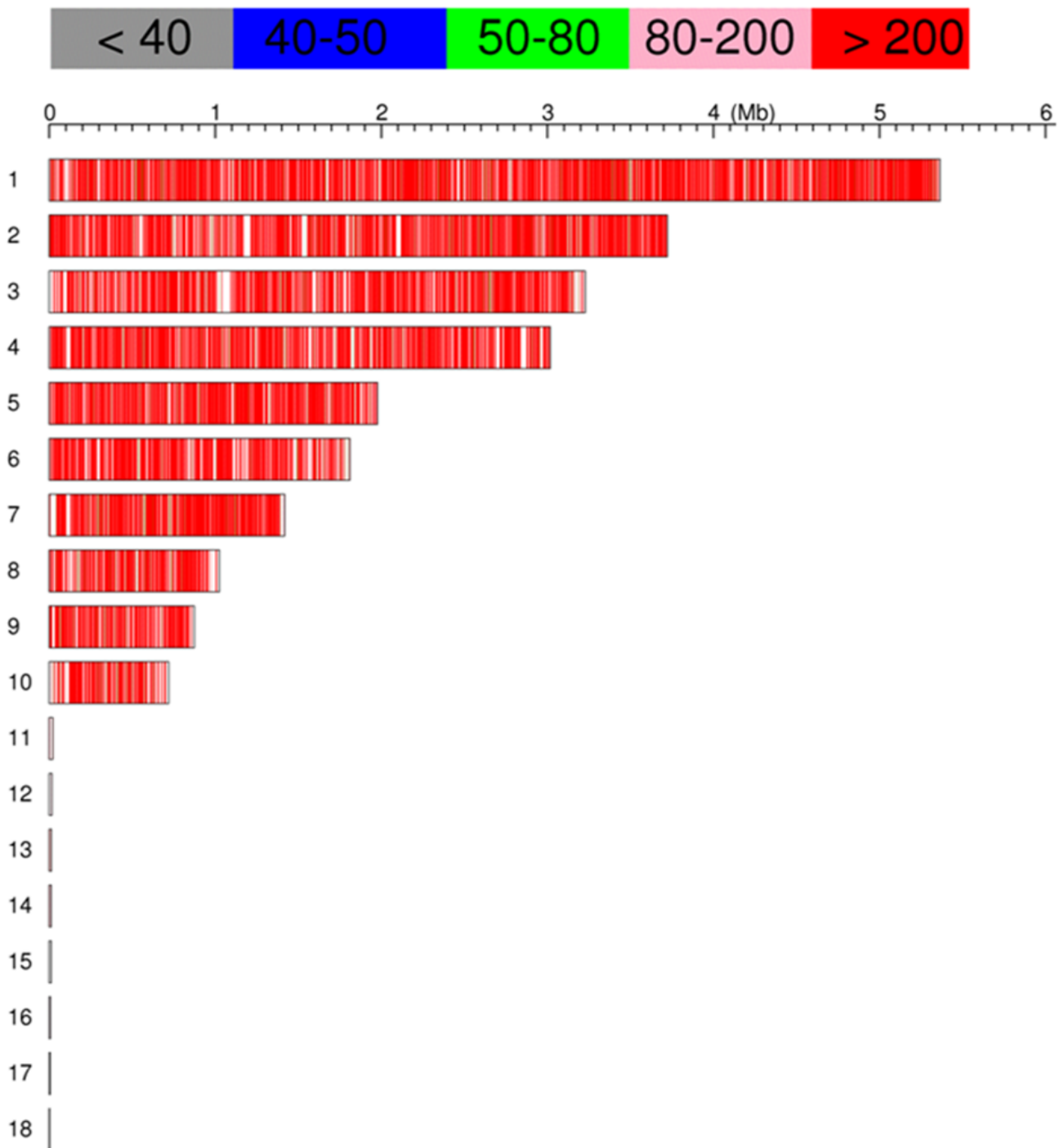


Fig. S2. Megablast graphical overview of *A. vanbreuseghemii* vs *N. gypsea*. Diagram indicates the hits of *N. gypsea* (reference) sequence aligned to *A. vanbreuseghemii* (query) sequence. Color key for the alignment scores is displayed at the top.

Reference = *M. canis* CBS 113480; Query = *A. vanbreuseghemii* TIMM 2789

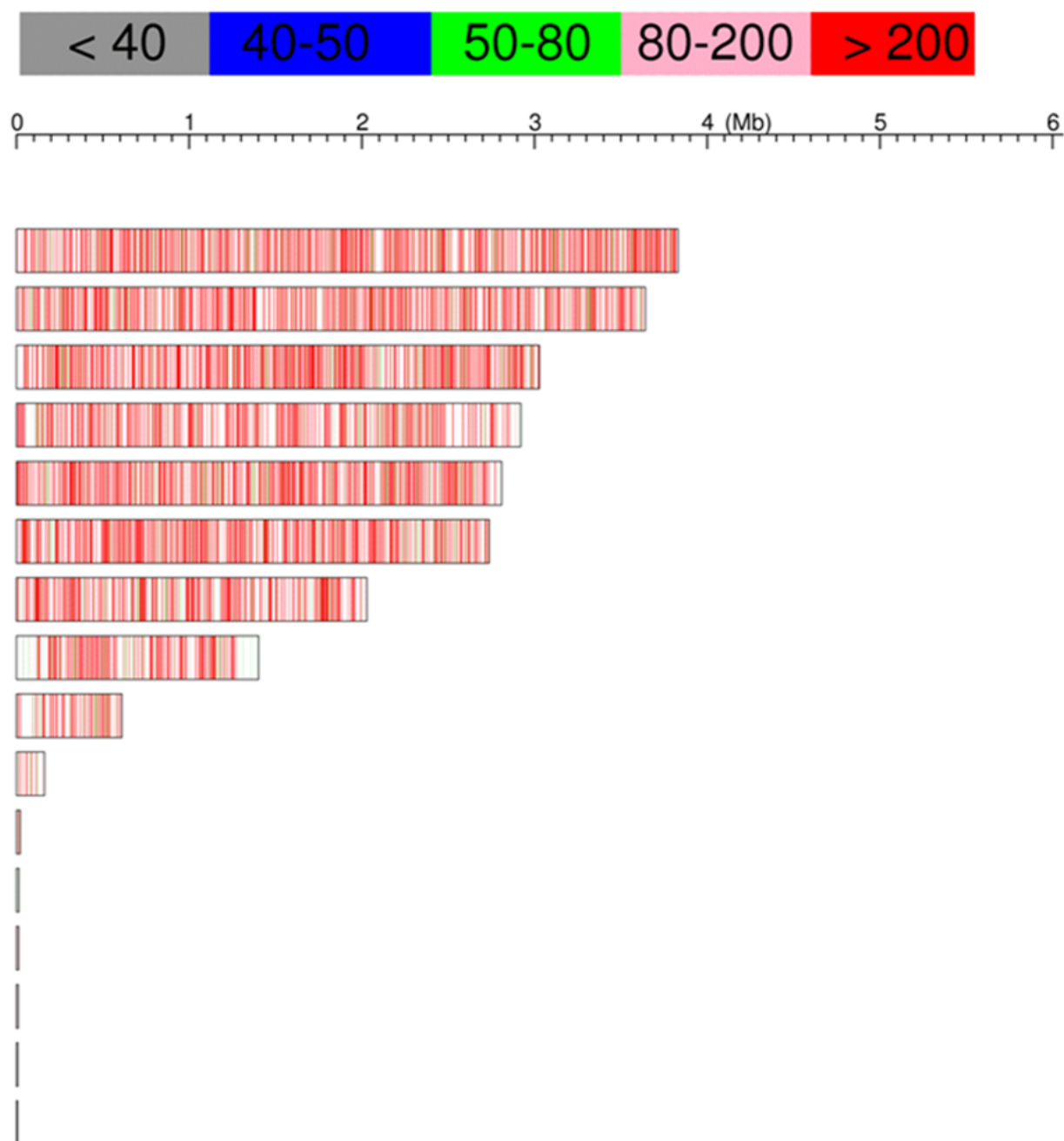


Fig. S3. Megablast graphical overview of *A. vanbreuseghemii* vs. *M. canis*. Diagram indicates the hits of *M. canis* (reference) sequence aligned to *A. vanbreuseghemii* (query) sequence. Color key for the alignment scores is displayed at the top.