

No.	Product Description	Year	Title	Author	Article Information	IF (2020)
1	Gene Synthesis Service	2019	Plexin B2 Is a Regulator of Monocyte Apoptotic Cell Disassembly	Georgia K. Atkin-Smith, Mark A. Miles, Rochelle Tixeira, Fung T. Lay, Mubing Duan, Christine J. Hawkins, Thanh Kha Phan, Stephanie Paone, Suresh Mathivanan, Mark D. Hulett, Weisan Chen, and Ivan K.H. Poon	<i>Cell Reports</i> . 29, 1821-1831.e3	9.423
2	Gene Synthesis Service	2019	A Plant Virus-Based Vector System for Gene Function Studies in Pepper	Boram Choi, Sun-Jung Kwon, Myung-Hwi Kim, Siwon Choe, Hae-Ryun Kwak, Mi-Kyeong Kim, Choonkyun Jung, and Jang-Kyun Seo	<i>Plant Physiology</i> . 181, 867-880	6.902
3	Gene Synthesis Service	2019	A negative feedback loop between XBP1 and Fbw7 regulates cancer development	Unbin Chae, Heejin Lee, Bokyung Kim, Haiyoung Jung, Byeong Mo Kim, Ann- Hwee Lee, Dong-Seok Lee, and Sang-Hyun Min	<i>Oncogenesis</i> . 8, 12	6.73
4	Gene Synthesis Service	2019	mRNA Engineering for the Efficient Chaperone-Mediated Co-Translational Folding of Recombinant Proteins in <i>Escherichia coli</i>	Le Minh Bui, Almando Geraldini, Thi Thuy Nguyen, Jun Hyoung Lee, Ju Young Lee, Byung-Kwan Cho, and Sun Chang Kim	<i>International Journal of Molecular Sciences</i> . 20, 3163	5.923
5	Gene Synthesis Service	2019	Efficient Generation of Human IgG1 Light Kappa Constant Region Knock-in Mouse by CRISPR/Cas9 System	Sundo Jung	<i>Biomedical Science Letters</i> . 25, 372-380	5.762

6	Gene Synthesis Service	2019	A functional regulatory variant of <i>MYH3</i> influences muscle fiber-type composition and intramuscular fat content in pigs	In-Cheol Cho, Hee-Bok Park, Jin Seop Ahn, Sang-Hyun Han, Jae-Bong Lee, Hyun-Tae Lim, Chae-Kyoung Yoo, Eun-Ji Jung, Dong-Hwan Kim Wu-Sheng Sun, Yulixaxis Ramayo-Caldas, Sang-Geum Kim, Yong-Jun Kang, Yoo-Kyung Kim, Hyun-Sook Shin, Pil-Nam Seong, In-Sul Hwang, Beom-Young Park, Seongsoo Hwang, Sung-Soo Lee, Youn-Chul Ryu, Jun-Heon Lee, Moon-Suck Ko, Kichoon Lee, Göran Andersson, Miguel Pérez-Enciso, and Jeong-Woong Lee	<i>PLOS Genetics</i> . 15, e1008279	5.33
7	Gene Synthesis Service	2019	Recombinant lignin peroxidase-catalyzed decolorization of melanin using <i>in-situ</i> generated H ₂ O ₂ for application in whitening cosmetics	Ho Joon Sung, Mohd Faheem Khan, and Yong Hwan Kim	<i>International Journal of Biological Macromolecules</i> . 136, 20-26	5.162
8	Gene Synthesis Service	2019	Type II Ice-Binding Proteins Isolated from an Arctic Microalga Are Similar to Adhesin-Like Proteins and Increase Freezing Tolerance in Transgenic Plants	Sung Mi Cho, Sanghee Kim, Hojin Cho, Hyoungseok Lee, Jun Hyuck Lee, Horim Lee, Hyun Park, Seunghyun Kang, Han-Gu Choi, and Jungeun Lee	<i>Plant and Cell Physiology</i> . 60, 2744-2757	4.927
9	Gene Synthesis	2019	Overcoming NADPH product inhibition improves D-sorbitol conversion to L-sorbose	Tae-Su Kim, Hui Gao, Jinglin Li, Vipin C. Kalia, Karthikeyan	<i>Scientific Reports</i> . 9, 815	4.793

	Service			Muthusamy, Jae Kyung Sohng, In-Won Kim, and Jung-Kul Lee		
10	Gene Synthesis Service	2019	Structures of three ependymin-related proteins suggest their function as a hydrophobic molecule binder	Jeong Kuk Park, Keon Young Kim, Yeo Won Sim, ^a Yong-In Kim, ^b Jin Kyun Kim, ^c Cheol Lee, ^c Jeongran Han, ^d Chae Un Kim, ^c J. Eugene Leeb, and SangYoun Park	<i>IUCrJ.</i> 6, 729-739	4.769
11	Gene Synthesis Service	2019	Enhanced Expression and Functional Characterization of the Recombinant Putative Lysozyme-PMAP36 Fusion Protein	Zhili Rao, So Young Kim, Md Rashedunnabi Akanda, Su Jin Lee, In Duk Jung, Byung-Yong Park, Seralathan Kamala-Kannan, Jin Hur, and Jung Hee Park	<i>Molecules and Cells.</i> 42, 262-269	4.58
12	Gene Synthesis Service	2019	Structural and <i>In Vitro</i> Functional Analyses of Novel Plant-Produced Anti-Human PD1 Antibody	Kaewta Rattanasit, Tanapati Phakham, Supranee Buranapraditkun, Konlavat Siriwattananon, Chatikorn Boonkrai, Trairak Pisitkun, Nattiya Hirankarn, Richard Strasser, Yoshito Abe, and Waranyoo Phoolcharoen	<i>Scientific Reports.</i> 9, 15205	4.379
13	Gene Synthesis Service	2019	Engineering of anti-human interleukin-4 receptor alpha antibodies with potent antagonistic activity	Jung-Eun Kim, Keunok Jung, Jeong-Ah Kim, Seung-Hyun Kim, Hae-Sim Park, and Yong-Sung Kim	<i>Scientific Reports.</i> 9, 7772	4.379
14	Gene Synthesis Service	2019	Liver-specific Gene Delivery Using Engineered Virus-Like Particles of Hepatitis E Virus	Eun Byul Lee, Jung-Hee Kim, Wonhee Hur, Jung Eun Choi, Sung Min Kim, Dong Jun Park, Byung-	<i>Scientific Reports.</i> 9, 1616	4.379

				Yoon Kang, Gil Won Lee, and Seung Kew Yoon		
15	Gene Synthesis Service	2019	Tyrosine 51 residue of the syndecan-2 extracellular domain is involved in the interaction with and activation of pro-matrix metalloproteinase-7	Bohee Jang, Ji-Hye Yun, Sojoong Choi, Jimin Park, Dong Hae Shin, Seung-Taek Lee, Weontae Lee, and Eok-Soo Oh	<i>Scientific Reports. 9,</i> 10625	4.379
16	Gene Synthesis Service	2019	Construction of an immunotoxin via site-specific conjugation of anti-Her2 IgG and engineered <i>Pseudomonas</i> exotoxin A	Byeong Sung Lee, Yumi Lee, Jisoo Park, Bo Seok Jeong, Migyeong Jo, Sang Taek Jung, and Tae Hyeon Yoo	<i>Journal of Biological Engineering. 13,</i> 56	4.355
17	Gene Synthesis Service	2019	Mevalonate production from ethanol by direct conversion through acetyl-CoA using recombinant <i>Pseudomonas putida</i> , a novel biocatalyst for terpenoid production	Jeongmo Yang, Ji Hee Son, Hyeonsoo Kim, Sukhyeong Cho, Jeong-geol Na, Young Joo Yeon, and Jinwon Lee	<i>Microbial Cell Factories. 18,</i> 168	4.187
18	Gene Synthesis Service	2019	A Fusion Protein of Derp2 Allergen and Flagellin Suppresses Experimental Allergic Asthma	Wenzhi Tan, Jin Hai Zheng, Tra-My Nu Duong, Young-Il Koh, Shee Eun Lee, and Joon Haeng Rhee	<i>Allergy, Asthma and Immunology Research. 11,</i> 254-266	4.157
19	Gene Synthesis Service	2019	Enhanced (–)- α -Bisabolol Productivity by Efficient Conversion of Mevalonate in <i>Escherichia coli</i>	Soo-Jung Kim, Seong Keun Kim, Wonjae Seong, Seung-Gyun Woo, Hyewon Lee, and Soo-Jin Yeom, Haseong Kim, Dae-Hee Lee, and Seung-Goo Lee	<i>Catalysts. 9,</i> 432	4.146
20	Gene Synthesis Service	2019	Released Tryptophanyl-tRNA Synthetase Stimulates Innate Immune Responses against Viral Infection	Hyun-Cheol Lee, Eun-Seo Lee, Md Bashir Uddin, Tae-Hwan Kim, Jae-Hoon Kim, Kiramage Chathuranga,	<i>Journal of Virology. 93,</i> e01291-18	3.616

				W A Gayan Chathuranga, Mirim Jin, Sunghoon Kim, Chul-Joong Kim, and Jong-Soo Lee		
21	Gene Synthesis Service	2019	Receptor Binding Affinities of Synthetic Cannabinoids Determined by Non-Isotopic Receptor Binding Assay	Hye Jin Cha, Yun Jeong Song, Da Eun Lee, Young-Hoon Kim, Jisoon Shin, Choon-Gon Jang, Soo Kyung Suh, Sung Jin Kim, and Jaesuk Yun	<i>Toxicology Research.</i> 35, 37-44	3.524
22	Gene Synthesis Service	2019	Efficient production of levan using a recombinant yeast <i>Saccharomyces cerevisiae</i> hypersecreting a bacterial levansucrase	Hyunjun Ko, Jung-Hoon Bae, Bong Hyun Sung, Mi-Jin Kim, Chul-Ho Kim, Baek-Rock Oh, and Jung-Hoon Sohn	<i>Journal of Industrial Microbiology and Biotechnology.</i> 46, 1611-1620	3.346
23	Gene Synthesis Service	2019	Characteristics of flavonoids as potent MERS-CoV 3C-like protease inhibitors	Seri Jo, Hyojin Kim, Suwon Kim, Dong Hae Shin, and Mi-Sun Kim	<i>Chemical Biology and Drug Design.</i> 94, 2023-2030	2.57
24	Gene Synthesis Service	2019	Detection of Sacbrood Virus Infecting Apis cerana (AcSBV) Using Polyclonal Antibody Raised against Recombinant VP3 Capsid Protein Expressed in <i>Escherichia coli</i>	Sung Oh	<i>Journal of Apiculture.</i> 34, 149-156	2.38
25	Gene Synthesis Service?	2019	Efficient Interleukin-21 Production by Optimization of Codon and Signal Peptide in Chinese Hamster Ovarian Cells	Hee Jun Cho, Byung Moo Oh, Jong-Tae Kim, Jeewon Lim, Sang Yoon Park, Yo Sep Hwang, Kyoung Eun Baek, Bo-Yeon Kim, Inpyo Choi, and Hee Gu Lee	<i>Journal of Microbiology and Biotechnology.</i> 29, 304-310	1.992
26	Gene Synthesis	2019	Development of an Equine Antitoxin by Immunizing the Halla Horse with the	Na Young Kim, Kyung-eui Park, Yong Jin Lee, Yeong Mun Kim, Sung	<i>Journal of Microbiology and</i>	1.992

	Service		Receptor-Binding Domain of Botulinum Neurotoxin Type A1	Hyun Hong, Won Rak Son, Sungyoul Hong, Saehyung Lee, Hye Bin Ahn, Jaehyuk Yang, Jong-pil Seo, Yoon-Kyu Lim, Chi Ho Yu, Gyeong Haeng Hur, Seong Tae Jeong, Hun Seok Lee, Kyoung Song, Tae Jin Kang, Young Kee Shin, Joon-Seok Choi, and Jun Young Choi	<i>Biotechnology. 29,</i> 1165-1176	
27	Gene Synthesis Service	2019	Effect of Fc Fusion on Folding and Immunogenicity of Middle East Respiratory Syndrome Coronavirus Spike Protein	Jungmin Chun, Yeondong Cho, Ki Hoon Park, Hanul Choi, Hansam Cho, Hee-Jung Lee, Hyun Jang, Kyung Hyun Kim, Yu-Kyoung Oh, and Young Bong Kim	<i>Journal of Microbiology and Biotechnology. 29,</i> 813-819	1.992
28	Gene Synthesis Service	2019	14-3-3ζ protein protects against brain ischemia/reperfusion injury and induces BDNF transcription after MCAO in rat	Naeemeh Khalesi, Mojgan Bandehpour, Mohammad Reza Bigdeli, Hassan Niknejad, Ali Dabbagh, and Bahram Kazemi	<i>Journal of Applied Biomedicine.</i>	1.85
29	Gene Synthesis Service	2019	Enhancement of antigen-specific humoral immune responses and protein solubility through conjugation of bacterial flagellin, <i>Vibrio vulnificus</i> FlaB, to the N-terminus of porcine epidemic diarrhea virus surface protein antigen S0	Seo-ho Oh, Young-Saeng Kim Cho, Ho-Bin Lee, Sang-Mok Lee, Whee-Soo Kim, Liang Hong, Chong-Su Cho, Yun-Jaie Choi, and Sang-Kee Kang	<i>Journal of Veterinary Science. 20,</i> e70	1.561
30	Gene Synthesis	2019	An attenuated <i>Salmonella</i> vaccine secreting <i>Lawsonia intracellularis</i> immunogenic	Suyeon Park, Gayeon Won, and John Hwa Lee	<i>Journal of Veterinary Science. 20,</i> e24	1.561

	Service		antigens confers dual protection against porcine proliferative enteropathy and salmonellosis in a murine model			
31	Gene Synthesis Service	2019	Effect of Amino Acid Substitutions on Biological Activity of Antimicrobial Peptide: Design, Recombinant Production, and Biological Activity	Parvaneh Panahi Chegini, Iraj Nikokar, Maryam Tabarzad, Sobhan Faezi,b, and Arash Mahboubi	<i>Iranian Journal of Pharmaceutical Research. 18, 157-168</i>	1.505
32	Gene Synthesis Service	2019	Enhancing Stability of Destabilized Green Fluorescent Protein Using Chimeric mRNA Containing Human Beta-Globin 5' and 3' Untranslated Regions	Setare Adibzadeh, Majid Fardaei, Mohammad Ali Takhshid, Mohammad Reza Miri, Gholamreza Rafiei Dehbidi, Ali Farhadi, Reza Ranjbaran, Parnian Alavi, Negin Nikouyan, Noorossadat Seyyedi, Samaneh Naderi, Alireaz Eskandari, and Abbas Behzad-Behbahani	<i>Avicenna Journal of Medical Biotechnology. 11, 112-117</i>	1.44
33	Gene Synthesis Service	2019	Prevalence of hepatitis E virus in thalassemia patients with hepatitis C in Tehran, Iran	Najmeh Dalvand, Azadeh Dalvand, Zohreh Sharifi, and Seyed Masoud Hosseini	<i>Iranian Journal of Microbiology. 11, 535-540</i>	1.22
34	Gene Synthesis Service	2019	A New ELISA Kit Based on Antigenic Epitopes for Diagnosing <i>Brucella abortus</i>	Tannaz Khodabakhsh, Azin Arabi, Parviz Pakzad, ShivaSadat Gheflat, Akram Bahreinipour, and Mojgan Bandehpour	<i>Microbiology and Biotechnology Letters. 47, 158-163</i>	0.36
35	Gene Synthesis Service	2019	Expression of an epitope-based recombinant vaccine against Foot and Mouth Disease (FMDV) in tobacco plant (<i>Nicotiana tabacum</i>)	Maziar Habibi-Pirkoohi, Saeid Malekzadeh-Shafaroudi, Hasan Marashi, and Afsaneh Mohkami	<i>Journal of Plant Molecular Breeding. 7, 1-9</i>	

36	Gene Synthesis Service	2019	Diet-responsive Transcriptional Regulation of Insulin in a Single Neuron Controls Systemic Metabolism	Ava Handley, Qiuli Wu, Tessa Sherry, and Roger Pocock	<i>bioRxiv Preprint</i>	
37	Cloning Service	2019	MicroRNA-126-3p inhibits the proliferation, migration, invasion, and angiogenesis of triple-negative breast cancer cells by targeting RGS3	Zhipeng Hong, Chengye Hong, Bo Ma, Qinglan Wang, Xi Zhang, Liangqiang Li, Chuan Wang Debo, and Chen	<i>Oncology Reports.</i> 42, 1569-1579	3.417