

No.	Product Description	Year	Title	Author	Article Information	IF (2020)
1	Gene Synthesis Service	2020	Allostery of DNA nanostructures controlled by enzymatic modifications	Qi Yan, Yaqi Wang, Jile Shi, and Bryan Wei	<i>Nucleic Acids Research. 48,</i> 7595- 7600	16.971
2	Gene Synthesis Service	2020	Client proximity enhancement inside cellular membrane-less compartments governed by client-compartment interactions	Daesun Song, Yongsang Jo, Jeong- Mo Choi, and Yongwon Jung	<i>Nature Communications. 11,</i> 5642	14.919
3	Gene Synthesis Service	2020	Distinct pseudokinase domain conformations underlie divergent activation mechanisms among vertebrate MLKL orthologues	Katherine A Davies, Cheree Fitzgibbon, Samuel N Young, Sarah E Garnish, Wayland Yeung, Diane Coursier, Richard W Birkinshaw, Jarrod J Sandow, Wil I L Lehmann, Lung-Yu Liang, Isabelle S Lucet, James D Chalmers, Wayne M Patrick, Natarajan Kannan, Emma J Petrie, Peter E Czabotar, and James M Murphy	<i>Nature Communications.11</i> , 3060	14.919
4	Gene Synthesis Service	2020	AAV-Mediated Combination Gene Therapy for Neuropathic Pain: GAD65, GDNF, and IL- 10	Daewook Kim, Kyung-Ran Kim, Yejin Kwon, Minjung Kim, Min-Ju Kim, Yeomoon Sim, Hyelin Ji, Jang-Joon Park, Jong-Ho Cho, Heonsik Choi, and Sujeong Kim	<i>Molecular Therapy. 18,</i> 473-483	11.454



5	Gene	2020	A Chemogenetic Tool that Enables Functional	Hoai Buu Ngo, Mariana R. Melo,	Cell Reports. 32,	9.423
Э		2020	0	5		9.425
	Synthesis		Neural Circuit Analysis	Sharon Layfield, Angela A. Connelly,	108139	
	Service			Jaspreet K. Bassi, Lin Xie, Clément		
				Menuet, Stuart J. Mc Dougall, Ross		
				A. D. Bathgate, and Andrew M. Allen		
6	Gene	2020	The oligomeric assembly of galectin-11 is	Dhanasekaran Sakthivel, Sarah	Communications	6.268
	Synthesis		critical for anti-parasitic activity in sheep	Preston, Robin B. Gasser, Tatiana P.	<i>Biology. 3,</i> 464	
	Service		(<i>Ovis aries</i>)	Soares da Costa, Julia N. Hernandez,		
				Adam Shahine, M. D. Shakif-Azam,		
				Peter Lock, Jamie Rossjohn,		
				Matthew A. Perugini, Jorge		
				Francisco González, Els Meeusen,		
				David Piedrafita, and Travis Beddoe		
7	Gene	2020	Eckol Alleviates Intestinal Dysfunction during	Sang In Lee and In Ho Kim	International Journal	5.923
	Synthesis		Suckling-to-Weaning Transition via		of Molecular	
	Service		Modulation of PDX1 and HBEGF		<i>Sciences. 21</i> , 4755	
8	Gene	2020	Efficiency of Recombinant CRISPR/rCas9-	Pil Joong Chung, Hoyong Chung,	International Journal	5.923
	Synthesis		Mediated miRNA Gene Editing in Rice	Nuri Oh, Joohee Choi, Seung Woon	of Molecular	
	Service			Bang, Se Eun Jung, Harin Jung, Jae	<i>Sciences. 21</i> , 9606	
				Sung Shim, and Ju-Kon Kim		
9	Gene	2020	Cyclic Peptide Mimotopes for the Detection	Chang-Kyu Heo, Hai-Min Hwang,	International Journal	5.923
	Synthesis		of Serum Anti–ATIC Autoantibody Biomarker	Won-Hee Lim, Hye-Jung Lee, Jong-	of Molecular	
	Service		in Hepato-Cellular Carcinoma	Shin Yoo, Kook-Jin Lim, and Eun-	<i>Sciences. 21</i> , 9718	
				Wie Cho		



10	Gene	2020	An infectious cDNA clone of a growth	Minwoo Kim, Hee Cho, Seung-Hoon	Emerging Microbes	5.828
	Synthesis		attenuated Korean isolate of MERS	Lee, Woo-Jung Park, Jeong-Min	and Infections. 9,	
	Service		coronavirus KNIH002 in clade B	Kim, Jae-Su Moon, Geon-Woo Kim,	2714-2726	
				Wooseong Lee, Hae-Gwang Jung,		
				Jeong-Sun Yang, Jang-Hoon Choi,		
				Joo-Yeon Lee, Sung Soon Kim,		
				Jong-Won Oh		
11	Gene	2020	Golden Gate Cloning-Compatible DNA	Jae Hoon Lee, Hyo Jun Won, Eun-	Frontiers in Plant	5.44
	Synthesis		Replicon/2A-Mediated Polycistronic Vectors	Seok Oh, Man-Ho Oh, and Je	<i>Science. 11</i> , 559365	
	Service		for Plants	Hyeong Jung		
12	Gene	2020	Structural and mutational analyses of the	Haehee Lee and Sangkee Rhee	Journal of Biological	5.157
	Synthesis		bifunctional arginine dihydrolase and		Chemistry. 295,	
	Service		ornithine cyclodeaminase AgrE from the		5751-5760	
			cyanobacterium Anabaena			
13	Gene	2020	Effects of Graphene Oxide-Gold	Jong-Won Kim, Myeongkun Kim,	Nanomaterials. 10,	5.076
	Synthesis		Nanoparticles Nanocomposite on Highly	Kyung Kwan Lee, Kwang Hyo	1921	
	Service		Sensitive Foot-and-Mouth Disease Virus	Chung, and Chang-Soo Lee		
			Detection			
14	Gene	2020	Self-Assembled Multi-Epitope Peptide	Yu-Gyeong Kim, Yunsu Lee, Joo Hee	Nanomaterials. 10,	5.076
	Synthesis		Amphiphiles Enhance the Immune Response	Kim, Sun-Young Chang, Jong-Wha	2342	
	Service		against Enterovirus 71	Jung, Woo-Jae Chung, and Hyo-Eon		
				Jin		
15	Gene	2020	Immunogenicity and Protective Effect of a	Won Hyung Choi and Ji Sun Park	<i>Biomedicines. 8</i> , 91	4.757
	Synthesis		Virus-Like Particle Containing the SAG1			



	Service		Antigen of <i>Toxoplasma gondii</i> as a Potential Vaccine Candidate for Toxoplasmosis			
16	Gene Synthesis Service	2020	, , , , , , , , , , , , , , , , , , , ,	Rachael E. Impey, Santosh Panjikar, Cody J. Hall, Lucy J. Bock, J. Mark Sutton, Matthew A. Perugini, and Tatiana P. Soares da Costa	<i>The FEBS Journal. 287,</i> 386-400	4.392
17	Gene Synthesis Service	2020	31 1 3 3 1	Jun-Woo Lee, Min-Woo Lee, Ji-San Ha, Dae-Soo Kim, EonSeon Jin, Hyung-Gwan Lee, and Hee-Mock Oh	<i>Scientific Reports. 10,</i> 13947	4.379
18	Gene Synthesis Service	2020		Jong-Jae Yi, Sun-Yeon Heo, Jung- Hyun Ju, Baek-Rock Oh, Woo Sung Son, and Jeong-Woo Seo	<i>Scientific Reports. 10,</i> 18849	4.379
19	Gene Synthesis Service	2020	Inhibition of SARS-CoV 3CL protease by flavonoids	Seri Jo, Suwon Kim, Dong Hae Shin, and Mi-Sun Kim	<i>Journal of Enzyme Inhibition and Medicinal Chemistry. 35</i> , 145-151	4.310
20	Gene Synthesis Service	2020	Inhibition of African swine fever virus protease by myricetin and myricitrin	Seri Jo, Dong Hae Shin, and Mi-Sun Kim	<i>Journal of Enzyme Inhibition and Medicinal Chemistry. 35</i> , 1045-1049	4.310
21	Gene Synthesis Service	2020	Flavonoids with inhibitory activity against SARS-CoV-2 3CLpro	Seri Jo, Suwon Kim, Dae Yong Kim, Mi-Sun Kim, and Dong Hae Shin	<i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> .	4.310



					<i>35</i> , 1539-1544	
22	Gene	2020	A study of Rose Bengal against a 2-keto-3-	Suwon Kim, Seri Jo, Mi-Sun Kim,	Journal of Enzyme	4.310
	Synthesis		deoxy-d- <i>manno</i> -octulosonate	and Dong Hae Shin	Inhibition and	
	Service		cytidylyltransferase as an antibiotic candidate		Medicinal Chemistry.	
					<i>35,</i> 1414-1421	
23	Gene	2020	Oral Immunotherapy Using Probiotic Ice	Alireza Vasiee, Fereshteh Falah,	Journal of	4.27
	Synthesis		Cream Containing Recombinant Food-Grade	Mojtaba Sankian, Farideh	Immunology	
	Service		Lactococcus lactis Which Inhibited Allergic	Tabatabaei-Yazdi, and Seyed Ali	Research. 2020,	
			Responses in a BALB/c Mouse Model	Mortazavi	2635230	
24	Gene	2020	Engineered Bacteriophage T7 as a Potent	Yoon Jung Hwang and Heejoon	Frontiers in	4.235
	Synthesis		Anticancer Agent <i>in vivo</i>	Myung	Microbiology. 11,	
	Service				491001	
25	Gene	2020	The structural basis of Bcl-2 mediated cell	Suresh Banjara, Jaison D Sa, Mark G.	Biochemical Journal.	4.097
	Synthesis		death regulation in hydra	Hinds, and Marc Kvansakul	<i>477,</i> 3287-3297	
	Service					
26	Gene	2020	Genetic Manipulation of a Lipolytic Yeast	Zool Hilmi Ibrahim, Jung-Hoon Bae,	Microorganisms. 8,	3.86
	Synthesis		Candida aaseri SH14 Using CRISPR-Cas9	Sun-Hee Lee, Bong Hyun Sung,	526	
	Service		System	Ahmad Hazri Ab Rashid, and Jung-		
				Hoon Sohn		
27	Gene	2020	Optimal RNA Extraction Methods and	Sun-Jung Kwon, Ju-Yeon Yoon, In-	Research in Plant	3.809
	Synthesis		Development of Synthetic Clones for Seven	Sook Cho, and Bong-Nam Chung	<i>Disease. 26,</i> 170-178	
	Service		Strawberry Viruses			
28	Gene	2020	Development of a Nuclease Protection Assay	Mingyeong Kang, Mirye Park, Kang	Journal of Life	3.647
	Synthesis		With Sandwich Hybridization (NPA-SH) to	Eun Kim, and Taek-Kyun Lee	<i>Science. 30,</i> 26-31	
	Service		Monitor Heterosigma akashiwo			



29	Gene	2020	Field porcine reproductive and respiratory	Changhoon Park, Jong Hyuk Baek,	Virology. 540, 172-	3.616
	Synthesis		syndrome viruses (PRRSV) attenuated by	Sun Hee Cho, Jiwoon Jeong,	183	
	Service		codon pair deoptimization (CPD) in NSP1	Chanhee Chae, Su-Hwa You, and		
			protected pigs from heterologous challenge	Sang-Ho Cha		
30	Gene	2020	STIM1 knock-down decreases the affinity of	W. Heo, N. Jin, M. S. Park, HY. Kim,	Clinical and	3.532
	Synthesis		obinutuzumab for CD20 by altering CD20	S. M. Yoon, J. Lee, and J. Y. Kim	Experimental	
	Service		localization to Triton-soluble membrane		Immunology. 200,	
					260-271	
31	Gene	2020	Characterization of a profilin-like protein from	Jessica Wilkie, Timothy C. Cameron,	<i>PeerJ. 8,</i> e10503	2.98
	Synthesis		Fasciola hepatica	and Travis Beddoe		
	Service					
32	Gene	2020	Characterization of novel monoclonal	Junghyun Goo, Yuji Jeong, Young-	Virus Research. 278,	2.934
	Synthesis		antibodies against MERS-coronavirus spike	Shin Park, Eunji Yang, Dae-Im Jung,	197863	
	Service		protein	Semi Rho, Uni Park, Hyeyeong		
				Sung, Pil-Gu Park, Jung-Ah Choi,		
				Sang Hwan Seo, Nam Hyuck Cho,		
				Hyeja Lee, Jae Myun Lee, Jae-Ouk		
				Kim, and Manki Song		
33	Gene	2020	Expression, purification, and characterization	Tiwa Rotchanapreeda, Yothin	<i>Heliyon. 6</i> , e04237	2.85
	Synthesis		of the recombinant exo-1,3-β-glucanase	Kumsang, Pattarana Sae-Chew,		
	Service		(Exo1) of the pathogenic oomycete Pythium	Thidarat Rujirawat, Tassanee		
			insidiosum	Lohnoo, Wanta Yingyong, Penpan		
				Payattikul, Onrapak Reamtong, and		
				Theerapong Krajaejun		
34	Gene	2020	Evaluation of a new live recombinant vaccine	Samira Salari, Iraj Sharifi, Ali Reza	Parasites and	2.824



	Synthesis		against cutaneous leishmaniasis in BALB/c	Keyhani, and Pooya Ghasemi Nejad	<i>Vectors. 13,</i> 415	
	Service		mice	Almani		
35	Gene	2020	Tea Polyphenols EGCG and Theaflavin Inhibit	Minsu Jang, Yea-In Park, Yeo-Eun	Evidence-Based	2.40
	Synthesis		the Activity of SARS-CoV-2 3CL-Protease <i>In</i>	Cha, Rackhyun Park, Sim	Complementary and	
	Service		Vitro	Namkoong, Jin I. Lee, and Junsoo	Alternative Medicine.	
				Park	2020, 7	
36	Gene	2020	Targeting TM4SF5 with anti-TM4SF5	Sangkyu Park, Dongbum Kim, Jeong	Oncology Letters. 19,	2.311
	Synthesis		monoclonal antibody suppresses the growth	-A Park, Hyung-Joo Kwon,	641-650	
	Service		and motility of human pancreatic cancer cells	Younghee Lee		
37	Gene	2020	A Simple Method for the Design and	Chulmin Park, Won-Bok Kim, Sung-	BioMed Research	2.276
	Synthesis		Development of Flavivirus NS1 Recombinant	Yeon Cho, Eun-Jee Oh, Hyeyoung	International. 2020,	
	Service		Proteins Using an In Silico Approach	Lee, Kyungjoon Kang, Yoonsuk Lee,	3865707	
				and Dong-Gun Lee		
38	Gene	2020	Engineering of a Microbial Cell Factory for	Hyun-Jae Lee, Ara Cho, Yeji Hwang,	Journal of	1.992
	Synthesis		the Extracellular Production of Catalytically	Jin-Byung Park, and Sun-Ki Kim	Microbiology and	
	Service		Active Phospholipase A2 of Streptomyces		Biotechnology. 30,	
			violaceoruber		1244-1251	
39	Gene	2020	A classical swine fever virus E2 fusion protein	Youngmin Park, Sangmin Lee,	Biotechnology	1.977
	Synthesis		produced in plants elicits a neutralizing	Hyangju Kang, Minhee Park,	<i>Letters. 42,</i> 1247-	
	Service		humoral immune response in mice and pigs	Kyungmin Min, Nam Hyung Kim,	1261	
				Sungmin Gu, Jong Kook Kim, Dong-		
				Jun An, SeEun Choe, and Eun-Ju		
				Sohn		
40	Gene	2020	Evaluation of the Effects of Human Beta-	Ehsan Naghneh, Es'hagh	Pharmaceutical	1.663
	Synthesis		Interferon Scaffold Attachment Region (IFN-	Pourmaleki, and Azam Rahimpour	<i>Sciences. 26,</i> 393-	



	Service		SAR) on Expression of Vascular Endothelial		398	
	Service				590	
			Growth Factor- Fc (VEGF-Fc) Fusion Protein			
			Expression in Chinese Hamster Ovary (CHO)			
			Cells			
41	Gene	2020	Cysteine/Histidine-Dependent	Golnar Rahimzadeh, Pooria Gill, and	Avicenna Journal of	1.44
	Synthesis		Amidohydrolase/Peptidase (CHAP)-Displayed	Mohammad Sadegh Rezai	Medical	
	Service		Nano Phages: Antimicrobial Function against		Biotechnology. 12,	
			Methicillin-Resistant Staphylococcus aureus		85-90	
			(MRSA)			
42	Gene	2020	Design, Expression and Purification of	Katayoun DASTAN, Mehdi ASSMAR,	Iranian Journal of	1.07
	Synthesis		Strongyloides stercoralis IgG4	Nour AMIRMOZAFARI, Fariborz	Parasitology. 15, 341-	
	Service		Immunoreactive Protein (NIE) in Escherichia	Mansour GHANAEI, and Mirsasan	348	
			coli	MIRPOUR		
43	Gene	2020	Metabolic Engineering of MEP Pathway for	Alshehri W. A., Gadalla N. O.,	Applied Ecology and	0.712
	Synthesis		Overproduction of Lycopene in	EDRIS S., ATEF A., HEMEG H., AL-	Environmental	
	Service		Saccharomyses cerevisiae Using Pesc-LEU and	QUWAIE D. A. H., ALSUBHI N. H.,	Research. 18, 5279-	
			PTEF1/ZEO Vectors	KABLI S. A., and BAHIELDIN A.	5292	
44	Gene	2020	Expression and Purification of Recombinant	So Yeon Yi, Kyungah Yoon, Jungsun	Journal of	0.34
	Synthesis		Mayaro Virus Envelope Glycoproteins E1 and	Kwon, Kyoon Eon Kim, Kyoungsook	Bacteriology and	
	Service		E2 to Develop a Mayaro Virus Detection	Park, and Yong Beom Shin	Virology. 50,	
			System		1144267	
45	Gene	2020	Expression of Recombinant Fusion Protein of	Ahmad Pandu Satria Wiratama and	BIO Web of	
	Synthesis		Newcastle Disease Virus from Escherichia coli	Aris Haryanto	Conferences. 20,	
	Service		Plasmid Clone C-2a by <i>In-vitro</i> Cell-free		04004	
			Protein Expression System			



46	Cloning	2020	Heme Oxygenase 1-Targeted Hybrid	Seok-Beom Yong, Jaehyun Kim, Jee	Advanced Science. 7,	16.806
	Service		Nanoparticle for Chemo- and Immuno-	Young Chung, Sehee Ra, Seong Su	2000487	
			Combination Therapy in Acute Myelogenous	kim, and Yong-Hee Kim		
			Leukemia			
47	Cloning	2020	Role of intrauterine administration of	Delsuz Rezaee, Mojgan Bandehpour,	Molecular Human	4.025
	Service		transfected peripheral blood mononuclear	Bahram Kazemi, and Mohammad	Reproduction. 26,	
			cells by GM-CSF on embryo implantation and	Salehi	101-110	
			pregnancy rate in mice			